Aluminum Statistical Review

Historical Supplement

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The Aluminum Association does not warrant the accuracy or completeness off any data in this Review. All data contained herein are subject to revision.

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Introduction to Aluminum Historical Supplement

The Aluminum Association's Aluminum Statistical Review–Historical Supplement is just that, a supplement to the Statistical Review. With the continually growing amount of information available on the Aluminum industry, it has been necessary to condense as much data as possible in the annual Aluminum Statistical Review down to a convenient to use current plus ten year series.

The purpose of the Historical Supplement is to provide the user with all of the data previously published by the Association in the Review from the first one that premiered in 1960 through the last complete series published for 1980.

Publication of additional supplements is anticipated to be on a 5 year basis. Any revisions which may occur to data in the interim will be published in the annual Review.

As with the Review, this Historical Supplement has been divided into the same five major sections: Shipments, Markets, Supply, U.S. Foreign Trade and World Statistics. In addition, each table is preceded by an introductory statement as an aid to the user. The glossary of industry terms has also been maintained for convenience in utilizing the information provided.

The data in this Supplement as well as the annual Review were developed by the Statistical and Marketing Research Committee of the Aluminum Association, Inc. with the kind cooperation of a number of organizations including but not limited to: National Association of Aluminum Distributors; U.S. Department of Commerce, Bureau of the Census; U.S. Department of Interior and the Bureau of Mines.

Aluminum Association staff members Nicholas A. Adams, Jr., George Van Buren Day and Harriet J. Rusk prepared the Historical Supplement for publication.

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U.S. Aluminum Industry Shipments

DESCRIPTION:

Total aluminum industry shipments presented are net shipments to U.S. consumers and for export. To avoid duplication, the figures do not include any intra-industry shipments for further fabrication into mill products. Imported ingot and mill products shipped to U.S. consumers are included.

Net shipments of ingot include domestic and import shipments and represent primary and secondary ingot shipments for export, for castings and destructive uses. Net shipments of mill products are shown separately for domestic and import. Mill product imports to aluminum producers are not included in total industry shipments. These imports are further processed by the producer into another mill product which is included in the total.

Imports to consumers are included in total industry shipments. These consumers fabricate the aluminum into a finished product. Beginning in 1955, imported mill products are net of receipts by producers of mill products. Prior to 1955, receipts of imported mill products by producers of mill products were small. Beginning in 1970, imported mill products data include reimports of metal exported for processing and returned for further processing.

Total Industry Shipments 1942-1980

Millions of pounds, Net shipments

Year	Total	Mill Products		
		Ingot	U.S. Producer	Imported
1942	1,452.7	507.4	933.6	11.7
1943	2,217.2	724.6	1,492.4	0.2
1944	2,566.4	952.0	1,613.0	1.4
1945	1,886.4	549.2	1,329.8	7.4
1946	1,672.4	529.2	1,140.8	2.4
1947	2,040.1	631.8	1,408.2	0.1
1948	2,282.0	629.8	1,640.2	12.0
1949	1,654.1	479.9	1,158.1	16.1
1950	2,460.6	724.6	1,713.4	22.6
1951	2,506.6	709.8	1,756.2	40.6
1952	2,694.5	811.2	1,850.4	32.9
1953	3,276.8	982.9	2,228.2	65.7
1954	3,036.0	920.2	2,086.6	29.2
1955	4,035.1	1,205.4	2,791.8	37.9
1956	4,154.6	1,223.5	2,885.8	45.3
1957	3,880.1	1,161.6	2,677.6	40.9
1958	3,631.2	974.0	2,597.1	60.1
1959	5,061.0	1,575.0	3,386.1	100.0
1960	4,732.5	1,608.6	3,049.1	74.8
1961	4,970.1	1,536.6	3,345.1	88.4
1962	5,772.5	1,858.6	3,811.3	102.7
1963	6,377.0	2,032.6	4,257.2	87.2
1964	7,171.3	2,228.6	4,834.9	107.8
1965	8,148.4	2,337.3	5,679.4	131.7
1966	9,029.4	2,340.1	6,457.5	231.9
1967	8,944.1	2,486.4	6,350.6	107.2
1968	9,974.6	2,694.8	7,167.0	112.8
1969	10,821.9	3,051.2	7,666.3	104.3
1970	10,109.3	2,594.5	7,358.0	156.8
1971	10,425.4	2,427.1	7,840.2	157.1
1972	12,046.6	2,633.8	9,246.3	166.5
1973	14,684.5	3,668.4	10,899.8	116.2
1974	13,730.2	3,178.4	10,461.0	90.8
1975	9,928.5	2,377.7	7,426.6	124.3
1976	12,425.1	2,540.1	9,705.6	178.3
1977	12,986.0	2,388.3	10,442.9	154.8
1978	14,425.3	2,672.3	11,346.0	407.0
1979	14,867.3	3,287.0	11,230.4	349.9
1980	14,199.5	3,572.3	10,484.9	142.3

Detail may not add to totals due to rounding.

SOURCES: Ingot and mill product domestic: 1942-45 —Aluminium and Magnesium Division, War Production Board; 1946 to date—U.S. Department of Commerce, Bureau of The Census, Industry Division; and Industry and Trade Administration, Bureau of Domestic Business Development, Office of Basic Industries—Facts for Industry 1946-1959, and Current Industrial Report Series M33-2, 1960 to date.

Mill products, imported: U.S. Department of Commerce, Bureau of The Census, Foreign Trade Division, and CIR Series M33-2.

Mill Products Imports 1961-1980

Millions of pounds

Total Imports

Year	Total(1)	Sheet & Plate	Rod & Bar	Other
1961	108.7	81.0	17.6	10.1
1962	128.7	99.4	19.0	10.3
1963	93.1	75.3	6.9	11.0
1964	113.1	90.4	8.2	14.6
1965	143.1	117.4	11.9	13.9
1966	254.9	210.4	27.8	16.7
1967	128.7	85.8	25.1	17.8
1968	137.6	99.3	22.5	15.8
1969	128.6	88.9	23.1	18.6
1970	193.8	136.3	18.2	39.3
1971	172.8	126.7	12.8	33.4
1972	188.9	138.5	16.8	33.7
1973	138.2	99.5	13.2	25.5
1974	109.7	69.7	18.8	21.2
1975	130.2	107.1	12.7	10.4
1976	189.0	150.5	20.9	17.6
1977	164.8	128.7	18.1	18.0
1978	484.5	433.7	22.1	28.7
1979	426.3	357.3	38.0	31.0
1980	168.1	126.1	16.3	25.7

Imports to Consumers

Year	Total(1)	Sheet & Plate	Rod & Bar	Other
1961	88.4			
1962	102.7			
1963	87.2	71.5	5.2	10.6
1964	107.8	86.3	7.0	14.5
1965	131.7	113.3	5.3	13.1
1966	231.9	195.9	24.8	11.3
1967	107.2	76.0	16.2	14.9
1968	112.8	84.6	14.1	14.2
1969	104.3	72.1	15.5	16.6
1970	156.8	105.5	12.5	38.8
1971	157.1	115.3	9.4	33.3
1972	166.5	117.2	15.6	33.7
1973	116.2	80.1	10.6	25.5
1974	90.8	53.9	15.7	21.2
1975	124.3	106.6	7.3	10.4
1976	178.3	144.8	16.1	17.3
1977	154.8	124.7	12.4	17.7
1978	407.0	371.0	9.7	26.3
1979	349.9	317.0	2.2	30.7
1980	142.3	115.7	9.1	17.5

Imports to Aluminum Producers

Year	Total(1)	Sheet & Plate	Rod & Bar	Other
1961	20.3			
1962	26.0			
1963	5.9	3.8	1.7	0.4
1964	5.4	4.1	1.2	0.1
1965	11.4	4.1	6.6	0.8
1966(2)	23.0	14.5	3.0	5.5
1967(2)	21.6	9.8	8.9	2.9
1968(2)	24.8	14.8	8.4	1.6
1969(2)	24.3	16.8	7.6	—
1970(2)	37.0	30.8	5.7	0.5

Year	Total(1)	Sheet & Plate	Rod & Bar	Other
1971(2)	14.7	11.3	3.3	*
1972(2)	22.4	21.2	1.2	—
1973(2)	22.0	19.4	2.6	—
1974(2)	18.9	15.8	3.1	—
1975(2)	5.9	0.5	5.4	*
1976(2)	10.8	5.7	4.8	0.3
1977(2)	10.0	4.0	5.7	0.3
1978(2)	77.5	62.7	12.4	2.4
1979(2)	76.4	40.3	35.8	0.3
1980(2)	25.8	10.4	7.2	8.2

** Less than 50 thousand pounds.*

Detail may not add to totals due to rounding.

(1) Starting in 1970, includes reimports of metal exported for processing and returned for further processing (TSUSA 806.30).

(2) Product detail estimated by Aluminum Association from published ranges.

SOURCES: U.S. Department of Commerce, Bureau of The Census, Foreign Trade Division and CIR Series M33-2.

Net Shipments of Ingot and Mill Products
Excludes Mill Product Imports to Consumers

1946–1980 Millions of pounds, Net shipments

Year	Total aluminum	Total Ingot	Primary Ingot	Secondary Ingot [3][4]	Extrusion Ingot [3]	Total mill products	Plate, sheet & strip					Forgings [2] Impacts [2]	
								Sheet & Plate					
								nonheat treatable	heat treatable		Foil		
1946	1,670.0	529.2	—	—	—	1,140.8	867.0						
1947	2,040.0	631.8	—	—	—	1,408.2	1,111.2						
1948	2,270.0	629.8	—	—	—	1,640.2	1,268.3						
1949	1,638.0	479.9	—	—	—	1,158.1	790.0						
1950	2,438.0	724.6	—	—	—	1,713.4	1,163.1						
1951	2,466.0	709.8	—	—	—	1,756.2	1,073.4						
1952	2,661.6	811.2	339.8	471.4	—	1,850.4	641.4		288.0		85.4		
1953	3,211.2	982.9	383.1	599.8	—	2,228.2	856.9		322.2		119.2		
1954	3,006.8	920.2	425.7	494.5	—	2,086.6	768.2		243.6		153.3		
1955	3,997.2	1,205.4	509.9	695.5	—	2,791.8	1,049.6		295.0		198.2	70.3	
1956	4,109.3	1,223.5	520.1	703.4	—	2,885.8	1,050.6		327.0		190.5	75.7	
1957	3,839.2	1,161.6	458.2	703.4	—	2,677.6	943.8		248.7		204.0	64.3	
1958	3,571.1	974.0	368.6	605.4	—	2,597.1	944.4		209.1		199.6	50.8	
1959	4,961.1	1,575.0	751.4	803.4	20.2	3,386.1	1,284.6		231.3		252.6	53.8	
1960	4,657.7	1,608.6	852.3	665.2	91.1	3,049.1	1,203.4		184.8		249.0	50.1	
1961	4,881.7	1,536.6	690.7	701.9	144.0	3,345.1	1,256.3		237.0		270.6	56.4	
								Sheet		Plate			
								NHT	HT	NHT	HT		
1962	5,669.8	1,858.6	768.9	848.7	241.0	3,811.3	1,361.8	157.3	108.9	82.9	297.4	79.4	
1963	6,289.7	2,032.6	859.2	885.9	287.5	4,257.2	1,626.5	165.2	126.5	77.1	322.3	84.0	
1964	7,063.5	2,228.6	946.5	995.1	287.0	4,834.9	1,903.0	167.8	124.2	79.0	356.7	88.4	
1965	8,016.7	2,337.3	1,069.3	1,126.9	141.1	5,679.4	2,179.8	223.0	109.0	97.0	395.7	96.4	
1966	8,797.6	2,340.1	987.2	1,190.4	162.6	6,457.5	2,382.4	281.5	125.7	147.2	432.2	139.2	
1967	8,836.9	2,486.4	1,063.6	1,189.1	233.7	6,350.6	2,385.6	227.4	119.5	135.6	449.4	165.2	
1968	9,861.8	2,694.8	1,154.2	1,284.3	256.3	7,167.0	2,910.8	250.2	103.5	140.0	508.7	105.7	62.1
1969	10,717.5	3,051.2	1,569.4	1,264.9	216.9	7,666.3	3,299.3	200.8	105.8	120.9	559.9	97.3	59.3
1970	9,952.5	2,594.5	1,307.0	1,126.0	161.5	7,358.0	3,376.4	126.7	94.1	91.4	558.7	71.4	49.0
1971	10,267.3	2,428.5	1,004.5	1,187.7	236.3	7,838.8	3,691.1	121.6	75.6	87.8	585.6	69.5	28.7
1972	11,880.0	2,633.8	1,000.7	1,467.9	165.2	9,246.2	4,431.4	160.6	78.8	97.1	673.2	95.3	27.5
1973	14,568.2	3,668.4	1,615.7	1,757.8	294.9	10,899.9	5,308.7	203.3	109.7	119.6	774.4	114.8	27.6
1974	13,639.5	3,178.4	1,503.5	1,457.4	217.4	10,461.1	5,087.9	216.5	157.2	164.6	748.2	112.8	25.5
1975	9,804.2	2,377.7	1,275.0	1,019.1	83.5	7,426.6	3,676.8	121.0	143.2	111.2	611.8	82.8	14.4
1976	12,245.6	2,540.1	1,108.5	1,227.6	203.9	9,705.6	5,167.0	191.9	108.4	106.5	772.3	83.1	17.1
1977	12,831.3	2,388.3	768.5	1,443.6	176.2	10,443.0	5,505.5	300.4	104.2	130.3	805.6	105.7	15.6
1978	14,018.4	2,672.3	923.3	1,658.7	90.3	11,346.0	5,785.4	350.0	116.1	157.1	876.6	115.7	20.7
1979	14,517.3	3,287.0	1,281.2	1,830.7	175.1	11,230.3	5,632.4	365.4	114.9	183.5	887.0	127.4	31.4
1980	14,057.2	3,572.3	1,958.3	1,582.0	32.0	10,484.9	5,301.8	247.3	92.2	220.9	830.4	107.2	26.0

(1) A small amount of rolled structural shapes is included with the rod & bar in 1946-1961 and with extruded shapes in subsequent years.
(2) Through 1954 forgings and impacts were not reported. They were included in appropriate forging stock product categories, mainly rolled rod & bar instead of forgings.
(3) 1952-1958 Secondary ingot included extrusion ingot.
(4) Secondary ingot includes shipments by integrated companies, secondary smelters and imports.

Detail may not add to totals due to rounding.

Extruded shapes, tube blooms, and tubing	Rod, bar & wire(1)	Powder
126.1	130.6	17.2
123.0	157.4	16.6
171.9	183.0	17.0
150.0	203.6	14.5
258.1	269.8	22.5
312.9	345.2	24.8

Extruded Shapes		Tubing		Rod & bar(1)	Wire, bare (non conductor)	ACSR & bare cable	Ins. or Cov. wire & cable & wire, bare (conductor)	
Soft alloys	Hard alloys	Soft alloys	Hard alloys					
206.2	81.0	46.4	14.2	197.3	42.7	174.7	23.4	49.7
312.6	80.5	55.2	14.1	218.6	45.7	134.0	24.7	44.4
					Wire bare			
					Non Conductor	Con-ductor		Ins. or cov. wire & cable
385.8	63.8	53.5	10.1	143.7	41.8	3.8	147.1	25.0	46.9
		Drawn tube	Welded tube					
636.3	45.8	67.2	25.5	109.9	57.7	4.0	156.9	39.5	35.7
641.0	63.5	60.2	27.6	117.8	54.4	5.5	147.4	56.1	28.4
					Wire, bare				
645.6	61.2	56.2	26.7	116.9	50.4		181.5	50.3	28.2
693.5	49.8	59.8	18.7	75.6	44.2		174.8	51.0	25.6
931.3	47.9	72.9	30.0	124.6	64.6		196.7	60.8	34.9
812.1	38.9	60.3	25.9	92.9	55.4		183.1	60.4	32.8
884.1	50.5	64.0	35.4	100.8	52.6		232.8	68.6	35.9

Extruded rod & bar		Extruded shapes(1)		Extruded pipe & tube		Tubing							
Soft	Hard	Soft	Hard	Soft	Hard	Soft alloys	Hard alloys	Rod & bar(1)	Wire, bare (non conductor)	ACSR & bare cable	Ins. or Cov. wire & cable & wire, bare (conductor)	Powder
54.8	12.6	782.4	44.8	139.5	5.2	78.4	40.7	136.4	55.0	253.2	76.9	43.7
61.1	10.2	870.7	54.2	150.3	6.1	65.5	52.1	121.0	57.6	272.3	89.2	44.8
						Drawn tube						
						Soft	Hard					
70.5	12.6	1,016.4	41.0	158.2	4.3	60.3	6.6	77.4	146.8	63.1	309.2	103.2	46.3
68.2	14.8	1,224.3	57.5	174.9	2.7	78.8	3.7	93.7	159.7	82.6	429.3	129.4	58.8
67.2	21.5	1,335.3	97.7	190.6	6.9	92.2	7.5	91.2	151.9	103.2	507.4	165.3	111.4
43.6	18.4	1,222.7	84.5	157.4	8.5	81.7	7.5	87.8	143.0	97.7	506.2	174.7	234.0
37.3	21.1	1,363.0	70.0	170.2	11.8	84.6	8.0	106.9	130.0	100.4	492.2	214.0	276.4
42.2	21.1	1,460.2	72.3	196.1		81.8	7.2	101.6	144.3	94.7	475.1	250.5	276.0
39.7	16.8	1,369.2	43.4	176.9		80.7	3.5	92.5	110.0	93.5	499.5	260.2	204.5
37.7	16.4	1,550.6	42.1	186.1		81.6	2.7	96.3	102.2	96.8	481.8	317.1	167.5
40.5	16.6	1,838.4	44.6	193.8		89.1	3.7	116.6	181.5	106.6	453.6	371.0	226.4
48.3	18.9	2,038.6	72.2	225.6		105.7	4.6	121.7	289.4	124.1	490.2	445.2	257.4
48.8	14.9	1,807.3	66.4	219.4		110.4		116.8	268.6	131.0	541.4	446.3	177.2
55.7	12.1	1,264.3	47.7	135.9		65.7		61.6	185.8	66.3	425.1	246.3	98.9
69.9		1,661.8	28.9	188.8		98.0		94.2	279.9(6)	79.9(6)	321.4	304.1	132.4
82.5		1,845.5	65.4	183.8		104.3		114.5	145.6(6)	85.3(6)	351.0	376.7	121.1(7)
113.7		2,021.9	93.2	176.8		106.7		110.4	266.5	89.3	390.3	419.6	135.9
100.9		1,990.1	104.2	151.9		95.9		83.5	300.0	91.3	417.4	427.5	125.6
113.0		1,791.2	107.3	140.7		80.7		96.8	377.6	72.2	399.8	363.2	116.6

(5) Extrusion ingot includes primary and secondary metal shipments by integrated companies, non-integrated companies, secondary smelters and imports includes exports and overstated domestic shipments due to insufficient reporting of receipts.

(6) Bare wire estimated by the Aluminum Association from part year reporting.

(7) Powder, n.e.c., included for only nine months of 1976 and excluded entirely for 1977.

SOURCE: U.S. Department of Commerce, Bureau of The Census, Industry and Trade Administration, Bureau of Domestic Business Development, Office of Basic Industries—Current Industrial Reports since 1960; Facts for Industry 1959 and earlier.

DESCRIPTION:

The table shows general line distributor shipments as estimated by the Management Information Committee of the National Association of Aluminum Distributors for the years 1961-1980. Also shown are estimates of the total market in which general line distributors are participants. This is labeled Total U.S. Shipments, excluding Direct Mill Uses.

Direct mill uses are excluded because these end product manufacturers do not buy from distributors. In some cases producers make the final products. These uses include residential siding, extruded shapes for all building products, furniture tube, conduit, irrigation pipe, can stock and exports. Total U.S. shipments excluding direct mill uses thus differ from total aluminum industry shipments of mill products by the amount of direct mill uses and products not generally handled by general line distributors (foil, conductor, forgings, powder).

General Line Distributor Shipments 1961-1980

Millions of pounds	1980	1979	1978	1977	1976	1975	1974	1973
Distributor Shipments								
Total	1,274	1,359	1,319	1,212	1,148	753	1,195	1,210
Sheet	747	816	812	758	753	435	708	738
Plate	155	152	138	112	92	77	128	106
Rod, bar & wire	161	176	161	137	116	85	134	142
Extruded shapes	151	149	138	136	121	105	147	149
Pipe & tube	60	66	70	69	66	51	78	75
Total U.S. Shipments excluding Direct Mill Uses								
Total	3,832	4,327	5,095	4,442	4,158	2,903	4,600	5,023
Sheet	2,302	2,598	3,359	3,013	2,772	1,842	2,911	3,370
Plate	266	281	253	215	196	210	295	213
Rod, bar & wire	379	407	398	286	376	257	418	420
Extruded shapes	710	859	864	741	662	487	782	792
Pipe & tube	175	182	221	187	152	107	194	228
Distributor share (per cent)								
Total	33.3	31.4	25.9	27.3	27.6	25.9	26.0	24.1
Sheet	32.5	31.4	24.2	25.2	27.2	23.6	24.3	21.9
Plate	58.3	54.1	54.5	52.1	46.9	36.7	43.4	49.8
Rod, bar & wire	42.5	43.2	40.4	47.9	30.9	33.1	32.1	33.8
Extruded shapes	21.3	17.4	16.0	18.4	18.3	21.6	18.8	18.8
Pipe & tube	34.3	36.3	31.7	36.9	43.4	47.7	40.2	32.9

Millions of pounds	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961
Distributor Shipments												
Total	953	796	743	890	859	756	907	705	580	495	522	469
Sheet	566	477	429	519	507	416	515	410	332	270	299	288
Plate	80	74	78	92	83	80	94	67	57	50	56	47
Rod, bar & wire	109	88	81	114	115	113	132	95	81	75	75	62
Extruded shapes	136	104	100	104	100	99	110	88	70	65	56	44
Pipe & tube	62	53	55	61	54	48	56	45	40	35	36	28
Total U.S. Shipments excluding Direct Mill Uses												
Total	4,155	3,452	3,232	3,620	3,425	2,977	3,446	2,969	2,559	2,240	2,103	1,833
Sheet	2,832	2,364	2,152	2,334	2,207	1,819	2,128	1,368	1,614	1,388	1,296	1,176
Plate	167	163	180	228	242	248	259	197	193	199	180	120
Rod, bar & wire	316	235	228	283	272	288	345	307	277	233	236	218
Extruded shapes	625	497	486	577	519	456	533	446	344	294	255	202
Pipe & tube	215	193	186	198	185	166	181	151	131	126	136	117
Distributor share (per cent)												
Total	22.9	23.1	23.0	24.6	25.1	25.4	26.3	23.7	22.7	22.1	24.8	25.6
Sheet	20.0	20.2	19.9	22.2	23.0	22.9	24.2	21.9	20.6	19.5	23.1	24.5
Plate	47.9	45.4	43.3	40.4	34.3	32.3	36.3	34.0	29.5	25.1	31.1	39.2
Rod, bar & wire	34.5	37.4	35.5	40.3	42.3	39.2	38.3	30.9	29.2	32.2	31.8	28.4
Extruded shapes	21.8	20.9	20.6	18.0	19.3	21.7	20.6	19.7	20.3	22.1	22.0	21.8
Pipe & tube	28.8	27.5	29.6	30.8	29.2	28.9	30.9	29.8	30.5	27.8	26.5	23.9

NOTE: In this table rod, bar and wire includes extruded rod and bar; pipe and tube includes extruded, drawn and welded pipe and tube.
SOURCE: Estimated by the Management Information Committee of the National Association of Aluminum Distributors.

DESCRIPTION:

Shipments to consumers in the United States are calculated by subtracting exports of ingot and mill products from total industry shipments.

This is slightly different from United States consumption because no adjustment is made for changes in inventories in the hands of consumers.

Shipments to U.S. Consumers and Exports 1942-1980

Millions of pounds, Net shipments

Year	Total	Exports	U.S. Consumers
1942	1,452.7	87.2	1,365.5
1943	2,217.2	250.3	1,966.9
1944	2,566.4	414.8	2,151.6
1945	1,886.4	24.2	1,862.2
1946	1,672.4	40.5	1,631.9
1947	2,040.1	139.8	1,900.3
1948	2,282.0	109.7	2,172.3
1949	1,654.1	82.9	1,571.2
1950	2,460.6	47.7	2,412.9
1951	2,506.6	30.6	2,476.0
1952	2,694.5	22.7	2,671.8
1953	3,276.8	36.7	3,240.1
1954	3,036.0	27.2	3,008.8
1955	4,035.1	45.1	3,990.0
1956	4,154.6	104.3	4,050.3
1957	3,880.1	98.8	3,781.2
1958	3,631.2	137.1	3,494.2
1959	5,061.0	275.7	4,785.3
1960	4,732.5	617.1	4,115.4
1961	4,970.1	325.8	4,644.3
1962	5,772.5	413.8	5,358.7
1963	6,377.0	469.4	5,907.6
1964	7,171.3	582.1	6,589.2
1965	8,148.4	570.6	7,577.8
1966	9,029.4	580.7	8,448.7
1967	8,944.1	651.4	8,292.7
1968	9,974.6	640.7	9,333.9
1969	10,821.9	999.5	9,822.4
1970	10,109.3	1,152.1	8,957.2
1971	10,425.4	557.6	9,867.8
1972	12,046.6	552.1	11,494.5
1973	14,684.5	925.2	13,759.3
1974	13,730.2	927.1	12,803.1
1975	9,928.5	805.0	9,123.5
1976	12,425.1	820.5	11,604.6
1977	12,986.0	712.2	12,273.8
1978	14,425.3	747.4	13,677.9
1979	14,867.3	1,022.9	13,844.4
1980	14,199.5	2,193.3	12,006.2

Detail may not add to totals due to rounding.

SOURCES: Total shipments—see sources, page 7. Exports of Ingot and Mill Products—U.S. Department of Commerce, Bureau of The Census, Foreign Trade Division, FT-410.

DESCRIPTION:

This table shows shipments of aluminum castings separately for sand, permanent mold and die castings, both for sale and own use. Own use shipments are for captive consumption in the producers' end products.

There are discontinuities in this series between 1961 and 1962 and again between 1965 and 1966.

The Bureau of The Census conducted a census of foundry shipments for the year 1962 and subsequently revised the figures for 1962 through 1965. A new sample drawn from the 1962 census was put into effect for the estimation of 1966 shipments.

Ingot requirements for the castings shipments shown in this table are part of the net ingot shipments shown on pages 3 and 4.

Shipments of Castings 1946-1980

Millions of Pounds

Year	Total Castings(1)	Sand Castings		Permanent and Semi-permanent Mold Castings		Die Castings	
		for sale	own use	for sale	own use	for sale	own use
1946	388.7	130.0	30.8	100.6	52.5	63.6	10.1
1947	467.8	125.0	38.3	122.4	64.4	91.9	23.7
1948	471.6	110.0	43.8	123.2	60.4	104.5	24.4
1949	351.8	85.7	36.9	87.9	35.6	81.3	17.0
1950	543.1	133.0	51.8	133.8	47.6	138.3	28.9
1951	515.1	146.4	47.0	121.3	38.7	120.5	31.0
1952	519.0	158.6	36.0	117.4	29.5	129.6	40.1
1953	658.0	175.3	39.3	165.3	34.7	182.2	57.1
1954	623.1	129.5	27.1	176.6	37.8	172.6	72.7
1955	820.8	129.9	35.6	240.4	57.9	266.6	88.6
1956	794.6	135.0	36.8	196.8	48.6	262.4	113.8
1957	751.8	115.3	28.7	180.5	51.8	264.9	108.7
1958	641.7	99.2	26.3	168.5	55.6	173.2	117.1
1959	786.4	115.3	26.7	211.3	63.6	219.2	148.9
1960	774.5	108.7	21.1	181.6	76.4	216.5	169.1
1961	763.5	101.1	23.5	160.0	101.9	225.9	150.0
1962	1,165.8	160.4	46.7	164.5	163.4	284.7	336.3
1963	1,207.2	160.0	42.9	169.4	163.3	273.0	392.3
1964	1,253.7	168.6	62.2	178.9	145.4	296.4	390.8
1965	1,409.0	193.2	75.4	184.5	146.3	364.4	439.1
1966	1,592.3	195.5	66.4	217.7	165.1	433.0	493.0
1967	1,464.5	154.7	79.1	202.2	145.3	418.9	448.1
1968	1,588.2	148.2	64.2	199.9	184.7	442.1	536.7
1969	1,698.1	154.9	66.0	243.3	190.7	430.3	597.3
1970	1,506.5	126.2	73.5	186.6	163.5	385.2	556.7
1971	1,577.2	121.7	71.1	197.7	150.8	398.4	627.8
1972	1,855.7	157.5	72.1	233.4	186.4	465.4	726.7
1973	2,026.1	182.5	77.1	243.9	196.3	520.8	783.6
1974	1,759.5	198.6	69.3	218.5	158.6	458.4	630.0
1975	1,375.5	144.9	52.4	156.7	130.7	327.8	538.4
1976	1,845.1	168.4	51.3	199.4	178.0	424.9	785.5
1977	2,009.0	184.4	42.3	223.3	216.0	469.4	835.1
1978	2,087.9	208.3	44.9	233.3	226.5	540.9	791.3
1979	2,080.5	242.3	43.3	259.3	222.9	565.7	703.5
1980	1,537.6	197.2	43.9	211.8	173.9	403.8	482.8

(1) Total includes small amounts of "other" castings not shown separately.

SOURCE: U.S. Department of Commerce, Bureau of The Census, Industry Division.

Markets

Product Net Shipments* by Major Market

DESCRIPTION:

The Statistical and Marketing Research Committee of The Aluminum Association, Inc. has developed an annual breakdown of total aluminum industry shipments by major market since 1960. End use data on U.S. aluminum shipments are not available from government sources on a regular basis. Aluminum consumption figures for some industries are published by the U.S. Department of Commerce in the Census of Manufactures. The most recent such Census covers the year 1977.

In the United States the aluminum industry has identified its major markets as building and construction, transportation, consumer durables, electrical, machinery and equipment, containers and packaging, exports and other end uses. Each of these major markets has a wide range of end uses within it.

Product Net Shipments* by Major Market
1960 — 1980

	1980	1979	1978	1977	1976	1975	1974
Total Aluminum							
Building & construction	2,621	3,044	3,208	2,998	2,814	2,247	3,145
Transportation	2,232	3,078	3,088	2,878	2,428	1,708	2,441
Consumer durables	877	1,023	1,151	1,052	1,021	754	1,160
Electrical	1,396	1,574	1,471	1,346	1,257	1,216	1,844
Machinery & equipment	829	950	988	910	888	649	1,045
Containers & packaging	3,334	3,223	3,141	2,781	2,585	2,014	2,280
Other	598	644	636	585	580	524	748
**Statistical adjustment	+119	+308	−5	−276	+31	+12	+140
Domestic, total	12,006	13,844	13,678	12,274	11,604	9,124	12,803
Export	2,193	1,023	747	712	821	805	927
ALUMINUM TOTAL	14,199	14,867	14,425	12,986	12,425	9,929	13,730
Ingot(1)							
Building & construction	83	100	91	98	94	186	248
Transportation	948	1,307	1,242	1,225	1,101	828	1,053
Consumer durables	255	318	320	326	317	255	358
Electrical	167	210	182	182	171	220	272
Machinery & equipment	259	319	295	293	281	232	340
Containers & packaging	20	15	11	9	12	10	23
Other	293	335	320	300	299	269	361
**Statistical adjustment	+102	+264	−42	−249	−47	—	+100
Domestic, total	2,127	2,868	2,419	2,184	2,228	2,000	2,755
Exports	1,445	419	253	204	312	378	423
INGOT TOTAL	3,572	3,287	2,672	2,388	2,540	2,378	3,178
Mill Products							
Building & construction	2,538	2,944	3,117	2,900	2,720	2,061	2,877
Transportation	1,284	1,771	1,846	1,653	1,327	880	1,588
Consumer durables	622	705	831	726	704	499	802
Electrical	1,229	1,364	1,289	1,164	1,086	996	1,572
Machinery & equipment	570	631	693	617	607	417	705
Containers & packaging	3,314	3,208	3,130	2,772	2,573	2,004	2,257
Other	305	309	316	285	281	255	387
**Statistical adjustment	+17	+44	+37	−27	+78	+12	+40
Domestic, total	9,879	10,976	11,259	10,090	9,376	7,124	10,048
Exports	748	604	494	508	509	427	504
MILL PRODUCTS TOTAL	10,627	11,580	11,753	10,598	9,885	7,551	10,552

***Note:** Total mill products are net shipments of aluminum mill products as reported by domestic producers to the U.S. Department of Commerce, plus imported mill products, less receipts of these imports by domestic producers.*

* *All references are contained in footnotes on page 17.*

Millions of pounds

1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
3,626	3,194	2,786	2,251	2,375	2,250	1,929	1,984	1,922	1,759	1,600	1,437	1,325	1,217
2,813	2,224	1,797	1,546	1,986	1,978	1,779	1,951	1,796	1,502	1,429	1,260	1,002	855
1,339	1,127	972	932	1,062	987	831	910	860	766	662	632	556	513
1,854	1,536	1,423	1,359	1,425	1,313	1,248	1,300	1,082	838	711	675	614	528
949	750	643	605	701	678	617	654	577	504	463	416	374	333
2,068	1,819	1,521	1,473	1,198	1,030	872	741	657	574	496	379	351	321
870	830	725	791	1,075	1,098	1,017	908	683	646	547	560	422	348
+240	+15	—	—	—	—	—	—	—	—	—	—	—	—
13,759	11,495	9,867	8,957	9,822	9,334	8,293	8,448	7,577	6,589	5,908	5,359	4,644	4,115
925	552	558	1,152	1,000	641	651	581	571	582	469	414	326	617
14,684	12,047	10,425	10,109	10,822	9,975	8,944	9,029	8,148	7,171	6,377	5,773	4,970	4,732
247	184	216	84	162	222	153	92	118	144	122	115	92	42
1,302	1,023	893	719	928	939	843	845	887	757	725	646	514	414
412	344	297	273	333	314	274	276	254	220	215	210	190	167
285	215	201	172	245	197	273	159	133	115	110	107	97	77
335	281	242	221	276	265	252	240	212	190	185	170	154	140
26	20	20	22	13	13	12	11	11	10	6	6	6	5
396	346	331	283	401	383	360	338	311	372	337	300	225	192
+200	—	—	—	—	—	—	—	—	—	—	—	—	—
3,203	2,413	2,200	1,774	2,358	2,333	2,066	1,961	1,926	1,808	1,700	1,554	1,278	1,037
465	221	228	820	693	362	420	379	411	420	333	305	259	571
3,668	2,634	2,428	2,594	3,051	2,695	2,436	2,340	2,337	2,228	2,033	1,859	1,537	1,608
3,379	3,010	2,570	2,167	2,213	2,028	1,776	1,892	1,804	1,615	1,478	1,322	1,233	1,175
1,511	1,201	904	827	1,058	1,039	936	1,106	909	745	704	614	488	441
927	783	675	659	729	673	558	634	606	546	447	422	366	346
1,569	1,321	1,222	1,187	1,180	1,116	1,075	1,141	949	723	601	568	517	451
614	469	401	384	425	413	365	414	365	314	278	246	220	193
2,042	1,799	1,501	1,451	1,185	1,017	860	730	646	564	490	373	345	316
474	484	394	508	674	715	657	570	372	274	210	260	197	156
+40	+15	—	—	—	—	—	—	—	—	—	—	—	—
10,556	9,082	7,667	7,183	7,464	7,001	6,227	6,487	5,651	4,781	4,208	3,805	3,366	3,078
460	331	330	332	307	279	231	202	160	162	136	109	67	46
11,016	9,413	7,997	7,515	7,771	7,280	6,458	6,689	5,811	4,943	4,344	3,914	3,433	3,124

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market
1960 — 1980

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
Sheet										
Building & construction	1,250	1,597	1,749	1,611	1,582	1,147	1,667	1,920	1,621	1,355
Transportation	499	824	932	865	669	352	591	732	609	462
Consumer durables	333	353	424	375	387	287	472	547	478	440
Electrical	199	243	239	229	214	131	246	281	222	190
Machinery & equipment	258	267	313	265	249	155	278	264	198	162
Containers & packaging	2,693	2,559	2,488	2,169	1,971	1,501	1,670	1,443	1,247	991
Other	64	74	82	64	58	61	73	78	100	79
**Statistical adjustment	−11	+11	+8	+28	+50	+38	+22	+15	—	—
Domestic, Total	5,285	5,928	6,235	5,606	5,180	3,672	5,019	5,280	4,475	3,679
Exports	375	374	265	323	322	230	338	310	232	244
SHEET TOTAL	5,660	6,302	6,500	5,929	5,502	3,902	5,357	5,590	4,707	3,923
Plate										
Building & construction	1	1	1	1	1	1	1	1	1	2
Transportation	216	220	190	160	146	161	197	150	112	104
Consumer durables	1	1	1	1	1	1	2	1	2	1
Electrical	5	10	10	7	6	10	15	14	13	12
Machinery & equipment	30	37	41	35	32	28	63	36	25	29
Containers & packaging	—	—	—	—	—	—	—	—	1	1
Other	13	12	10	11	10	9	17	12	13	14
Domestic, Total	266	281	253	215	196	210	295	214	167	163
Exports	51	30	27	21	21	46	29	18	11	6
PLATE TOTAL	317	311	280	236	217	256	324	232	178	169
Foil										
Building & construction	29	38	37	33	25	21	31	30	24	22
Transportation	31	41	45	38	25	16	16	20	18	12
Consumer durables	84	112	122	95	83	39	69	87	60	33
Electrical	23	30	27	25	23	14	26	26	21	18
Machinery & equipment	16	20	21	14	15	12	16	18	14	8
Containers & packaging	614	640	633	598	597	501	583	596	548	506
Other	5	3	1	1	2	4	4	7	8	7
Domestic, Total	802	884	886	804	770	607	745	784	693	606
Exports	38	21	12	12	14	10	17	8	5	5
FOIL TOTAL	840	905	898	816	784	617	762	792	698	611
Extruded rod & bar										
Building & construction										7
Transportation										5
Consumer durables										5
Electrical										22
Machinery & equipment										8
Containers & packaging										—
Other										16
Domestic, Total										63
Exports										—
EXTRUDED ROD & BAR TOTAL	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	63

* *All references are contained in footnotes on page 17.*

Millions of pounds

1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1,140	1,165	1,043	869	953	891	798	741	641	596	583
366	496	475	405	508	430	322	309	254	294	265
432	487	452	373	426	403	370	299	285	252	247
197	185	168	143	173	150	118	92	94	87	83
163	159	156	128	150	134	121	111	92	102	79
961	710	587	475	364	305	244	203	110	102	90
124	137	162	133	150	107	85	34	94	94	75
—	—	—	—	—	—	—	—	—	—	—
3,383	3,339	3,043	2,526	2,724	2,420	2,058	1,789	1,570	1,527	1,422
220	225	198	163	136	96	99	74	35	40	27
3,603	3,564	3,241	2,689	2,860	2,516	2,157	1,863	1,605	1,567(5)	1,449(5)
1	2	2	2	2	2	2	2	3		
121	150	176	178	177	140	142	149	131		
1	1	1	1	2	1	1	1	1		
9	16	12	10	13	4	4	2	5		
28	27	25	30	33	24	20	19	18		
2	8	6	8	4	—	1	2	3		
18	24	21	19	30	26	24	26	20		
180	228	243	148	261	197	194	201	181		
11	7	5	7	12	9	9	3	11		
191	235	248	255	273	206	203	204	192	(5)	(5)
16	15	17	13	16	13	12	14	12	12	10
12	10	11	6	5	3	4	3	1	1	—
34	32	22	18	12	10	5	6	7	3	2
21	22	18	17	22	19	17	15	14	13	10
8	8	7	5	6	5	5	4	3	2	2
485	463	421	373	358	338	316	282	255	238	224
7	10	16	20	16	13	5	4	11	8	8
583	560	512	452	435	401	364	328	303	277	256
4	4	2	1	2	3	3	4	5	3	3
587	564	514	453	437	404	367	332	308	280	259
7	7	7	10	12	16	20	18	17		
5	5	7	8	16	12	11	10	9		
6	7	8	8	9	9	11	11	11		
22	22	18	19	19	16	13	8	9		
9	9	8	9	10	10	9	9	5		
—	—	—	—	—	—	—	—	—		
20	25	20	20	23	20	19	15	16		
69	75	68	74	89	83	83	71	67		
—	—	—	—	—	—	—	—	—		
69	75	68	74	89	83	83	71	67	(6)	(6)

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market
1960 — 1980

	1980	1979	1978	1977	1976	1975	1974	1973	1972
Extruded shapes									
Building & construction	1,176	1,215	1,235	1,163	1,019	812	1,074	1,302	1,250
Transportation	390	499	491	427	350	234	424	437	328
Consumer durables	96	117	133	106	94	70	109	113	85
Electrical	88	106	101	89	94	78	117	114	97
Machinery & equipment	88	108	115	88	81	72	84	79	67
Containers & packaging	—	1	—	—	—	—	—	—	1
Other	37	28	24	31	43	33	48	49	48
Domestic, Total	1,875	2,074	2,099	1,904	1,681	1,299	1,856	2,094	1,876
Exports	25	22	17	9	10	14	18	17	8
EXTRUDED SHAPES TOTAL	1,900	2,096	2,116	1,913	1,691	1,313	1,874	2,111	1,884
Extruded pipe & tube									
Building & construction	23	31	29	31	33	27	42	46	47
Transportation	13	18	24	21	18	14	18	20	16
Consumer durables	19	21	28	22	18	13	19	21	20
Electrical	62	37	41	44	46	35	56	69	61
Machinery & equipment	26	29	35	45	53	31	65	55	38
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	3	2	2	2	3	3	6	8	8
**Statistical adjustment	−20	—	—	—	—	—	—	—	—
Domestic, Total	126	138	159	165	171	123	206	219	190
Exports	15	15	18	20	19	14	15	10	5
EXTRUDED PIPE & TUBE TOTAL	141	153	177	185	190	137	221	229	195
Drawn tube									
Building & construction	3	3	3	4	3	3	6	6	5
Transportation	11	17	18	17	15	10	12	20	20
Consumer durables	28	34	40	40	41	26	38	42	36
Electrical	10	10	13	13	13	10	14	13	11
Machinery & equipment	20	21	21	20	23	13	34	24	15
Containers & packaging	—	—	1	—	—	—	—	—	—
Other	8	10	10	9	2	3	5	4	7
Domestic, Total	80	95	106	103	97	65	109	109	94
Exports	1	1	1	1	1	1	1	1	1
DRAWN TUBE TOTAL	81	96	107	104	98	66	110	110	95
Welded tube									
Building & construction	2	2	3	2	2	2	3	3	2
Transportation	1	1	3	2	1	1	1	—	1
Consumer durables	36	41	58	62	53	40	55	74	67
Electrical	4	4	5	5	6	4	5	7	6
Machinery & equipment	41	44	47	69	81	52	73	51	39
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	2	2	2	2	1	1	1	1	1
**Statistical adjustment	+11	−11	−8	−28	−50	−38	−22	−15	—
Domestic, Total	97	83	110	114	94	62	116	121	116
Exports	—	—	—	—	—	—	1	1	1
WELDED TUBE TOTAL	97	83	110	114	94	62	117	122	117

 * *All references are contained in footnotes on page 17.*

Millions of pounds

1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1,087	910	928	867	792	814	794	689	616	567	581	539
227	236	292	256	212	260	211	169	144	131	126	112
71	62	71	60	43	58	51	42	35	26	35	29
91	87	91	84	88	89	73	51	43	37	86	80
57	54	66	58	56	65	60	49	40	39	73	65
1	1	1	1	1	1	1	1	1	2	3	1
52	52	76	100	112	140	85	52	41	20	26	19
1,586	1,402	1,525	1,426	1,304	1,427	1,275	1,053	920	822	930	845
8	11	8	7	7	6	7	5	5	5	5	6
1,594	1,413	1,533	1,433	1,311	1,433	1,282	1,058	925	827	935(6)	851(6)
46	45	41	35	37	40	38	36	36	36		
11	9	9	8	6	7	5	5	4	6		
17	16	17	14	8	9	8	11	8	5		
60	62	72	69	60	80	68	65	62	55		
40	33	46	45	44	51	51	40	37	36		
—	—	—	—	—	—	—	—	—	—		
6	9	11	10	9	7	5	4	8	7		
—	—	—	—	—	—	—	—	—	—		
180	174	196	181	164	194	175	161	155	145		
7	5	3	4	3	4	3	2	1	—		
187	179	199	185	167	198	178	163	156	145	(6)	(6)
4	4	5	5	4	4	4	4	5	5	4	4
17	12	12	12	18	19	14	10	9	8	6	5
33	33	34	38	34	31	32	25	24	37	31	30
11	11	12	12	11	14	13	10	9	9	10	7
15	18	18	18	12	18	13	12	12	12	6	10
—	—	—	—	—	—	—	—	—	—	—	—
5	7	10	10	11	13	6	5	6	6	5	3
85	85	91	95	90	99	82	66	65	77	62	59
1	1	1	1	1	1	1	1	1	1	2	1
86	86	92	96	91	100	83	67	66	78	64	60
2	2	2	3	2	2	3	3	2	1	1	1
—	—	—	1	1	—	—	—	—	—	—	—
53	55	57	54	50	62	67	57	40	33	28	20
5	5	6	7	6	6	4	2	1	—	—	—
34	29	35	40	28	20	18	13	8	7	6	5
—	—	—	—	—	—	—	—	—	—	—	—
1	1	1	1	—	—	1	1	1	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
95	92	101	106	87	90	93	76	52	41	35	26
1	1	1	1	1	1	1	1	—	—	—	—
96	93	102	107	88	91	94	77	52	41	35	26

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market 1960-1980

	1980	1979	1978	1977	1976	1975	1974	1973	1972
Rolled & continuous cast rod & bar									
Building & construction	29	29	33	28	29	25	31	32	25
Transportation	35	40	44	35	34	28	37	41	28
Consumer durables	15	15	16	14	14	11	20	21	16
Electrical	97	93	85	67	73	55	85	86	52
Machinery & equipment	51	53	52	41	39	31	45	41	33
Containers & packaging	1	1	—	—	—	—	—	—	—
Other	26	26	31	27	25	29	42	46	47
**Statistical Adjustment	+109	+84	+68	—	−97	+30	+40	+40	+15
Domestic, Total	363	341	329	212	311	209	300	307	216
Exports	137	62	60	28	55	52	47	60	39
ROLLED & CONTINUOUS CAST ROD & BAR TOTAL	500(2)	403(2)	389(2)	240(2)	366(2)	261(2)	347(2)	367(2)	255(2)
Bare Wire									
Building & construction	24	27	26	26	25	22	41	38	34
Transportation	5	8	8	8	6	5	7	8	8
Consumer durables	5	6	6	8	10	9	13	16	16
Electrical	11	11	10	11	10	11	21	20	17
Machinery & equipment	21	28	29	24	22	14	28	24	19
Containers & packaging	6	7	8	5	5	2	4	3	2
Other	4	6	4	4	3	3	4	4	4
**Statistical Adjustment	−60	−25	−22	−12	−16	−18	—	—	—
Domestic, Total	16	68	69	74	65	48	118	113	100
Exports	58	30	24	15	19	21	16	14	10
BARE WIRE TOTAL	74	98	93	89	84	69	134	127	110
ACSR & bare cable									
Building & construction	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—
Electrical	367	387	335	295	294	399	534	487	444
Machinery & equipment	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—
**Statistical Adjustment	+8	—	—	—	—	—	—	—	—
Domestic, Total	375	387	335	295	294	399	534	487	444
Exports	25	31	55	57	28	27	9	4	10
ACSR & BARE CABLE TOTAL	400	418	390	352	322	426	543	491	454
Insulated or covered wire & cable									
Building & construction	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—
Electrical	359	428	419	376	304	245	446	445	371
Machinery & equipment	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—
Domestic, Total	359	428	419	376	304	245	446	445	371
Exports	4	—	1	1	—	1	—	—	—
INSULATED OR COVERED WIRE & CABLE TOTAL	363	428	420	377	304	246	446	445	371

 * All references are contained in footnotes on page 17.

Millions of pounds

1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
13	15	17	17	20	22	22	35	28	28	27	25
12	11	14	13	18	24	26	20	17	16	17	18
4	4	5	4	6	7	7	7	7	4	4	5
11	10	17	23	25	38	35	29	21	23	20	19
15	14	22	21	24	28	25	24	21	20	20	20
—	—	—	—	—	1	—	—	—	—	—	—
23	23	42	31	32	39	29	16	11	24	14	8
—	—	—	—	—	—	—	—	—	—	—	—
78	77	117	109	125	159	144	131	105	115	102	95
25	33	31	25	22	18	21	23	22	28	3	2
103	110	148	134	147	177	165	154	127	143	105	97
32	27	31	31	26	26	20	14	14	11	10	12
7	5	5	7	6	7	5	4	3	2	5	5
15	13	15	17	15	16	16	15	14	11	11	11
18	17	16	15	19	20	18	13	8	11	8	11
17	16	18	16	16	20	15	12	10	8	8	8
2	2	3	2	2	1	1	1	1	2	2	1
3	2	3	7	5	8	5	4	7	9	8	7
—	—	—	—	—	—	—	—	—	—	—	—
94	82	91	95	89	98	80	63	57	54	52	55
6	16	8	7	10	7	5	3	1	1	1	1
100	98	99	102	99	105	85	66	58	55	53	56
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
461	482	466	475	500	501	419	297	250	233	223	179
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
461	482	466	475	500	501	419	297	250	233	223	179
21	19	10	18	9	9	11	13	22	20	10	4
482	501	476	493	509	510	430	310	272	253	233	183
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
317	259	249	212	174	164	128	102	88	76	68	60
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
317	259	249	212	174	164	128	102	88	76	68	60
—	1	1	2	1	1	1	1	1	1	1	—
317	260	250	214	175	165	129	103	89	77	69	60

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market
1960-1980

	1980	1979	1978	1977	1976	1975	1974	1973	1972
Forgings									
Building & construction	1	1	1	1	1	1	1	1	1
Transportation	79	98	85	76	57	54	77	73	52
Consumer durables	2	2	2	2	2	2	2	3	2
Electrical	1	1	1	1	1	2	3	3	3
Machinery & equipment	10	13	13	11	7	6	14	18	18
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	11	8	9	9	12	14	12	12	15
**Statistical Adjustment	—	—	+5	—	—	—	—	—	—
Domestic, Total	104	123	116	100	80	79	109	110	91
Exports	3	4	(NR)	6	3	4	4	5	4
FORGINGS TOTAL	107	127	116	106	83	83	113	115	95
Impacts									
Building & construction	—	—	—	—	—	—	—	—	—
Transportation	4	5	6	4	6	5	8	10	9
Consumer durables	3	3	1	1	1	1	3	2	1
Electrical	3	4	3	2	2	2	4	4	3
Machinery & equipment	9	11	6	5	5	3	5	4	3
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	7	8	5	3	3	3	6	7	11
Domestic, Total	26	31	21	15	17	14	26	27	27
Exports	—	—	—	—	—	—	—	—	—
IMPACTS TOTAL	26	31	21	15	17	14	26	27	27
Powder									
Building & construction	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—
Electrical	—	—	—	—	—	—	—	—	—
Machinery & equipment	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—
Other	125	130	136	122	119	92	169	246	222
**Statistical Adjustment	−20	−15	−14	−15	−3	—	—	—	—
Domestic, Total	105	115	122	107	116	92	169	246	222
Exports	16	14	14	15	17	7	9	12	5
POWDER TOTAL	121	129	136	122	133	99	178	258	227

Millions of pounds

1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
—	—	—	1	1	1	1	2	2	1	2	1
38	42	55	63	78	83	63	58	56	56	39	36
2	1	1	1	2	2	2	2	2	2	2	2
3	2	2	1	3	2	2	2	2	2	2	2
14	10	14	16	13	13	10	9	7	6	3	4
—	—	—	—	1	1	1	1	1	1	—	—
9	12	20	18	63	34	16	13	13	10	7	4
—	—	—	—	—	—	—	—	—	—	—	—
66	67	92	100	161	136	95	87	83	78	55	49
3	4	5	6	4	3	1	1	1	1	1	1
69	71	97	106	165(3)	139(3)	96(3)	88(3)	84(3)	79(3)	56(3)	50(3)
—	—	—	—								
9	8	10	10								
1	2	2	2								
3	3	4	2								
2	2	3	2								
—	—	—	—								
14	34	40	45								
29	49	59	62								
—	—	—	—								
29	49	59	62	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
165	199	275	274	233	110	59	46	44	43	35	32
—	—	—	—	—	—	—	—	—	—	—	—
165	199	275	274	233	110	59	46	44	43	35	32
3	6	3	3	2	2	1	1	1	1	1	1
168	205	278	277	235	112	60	47	45	44	36	33

** "Net Shipments" exclude intra-industry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are eliminated.*

*** "Statistical Adjustment" accounts for net shipments of aluminum reported by the Bureau of the Census which the Aluminum Association believes were either over or understated in the amounts indicated due to excessive or sufficient reporting of receipts. The addition of the statistical adjustments reconciles the amounts reported by the Bureau of the Census with the net-shipments that the Aluminum Association feels are more correct.*

r—revised (NR) not reported by Census

(1) Includes primary and secondary ingot for castings, destructive uses and exports.

(2) Extruded rod & bar combined with rolled and continuous cast rod & bar from 1972 to present.

(3) Impacts not reported separately prior to 1968. Impacts shown under forgings for the year 1967.

(4) Excludes exports and imports of "backed" foil since for the most part they represent finished foil products, not the mill product form.

(5) Plate combined with sheet 1960 & 1961.

(6) Extruded rod & bar and extruded pipe and tube combined with extruded shapes 1960 & 1961.

SOURCE: Estimated by the Statistical and Marketing Research Committee of the Aluminum Association, Inc.

Trends in Selected Markets

Trends in Selected Markets *

BUILDING & CONSTRUCTION — Millions of pounds

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967
Windows, doors & screens, total	853	899	952	913	801	689	836	1,001	908	834	630	675	684	617
Ingot	38	42	36	40	38	98	114	117	80	95	24	61	86	56
Total mill products	815	857	916	873	763	591	722	884	828	739	606	614	598	561
Sheet	118	130	157	114	117	81	108	139	109	96	83	74	72	63
Plate	1	1	1	1	1	—	1	—	—	—	—	—	—	—
Extruded rod & bar	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	2	2	2	2	4
Extruded shapes	665	695	725	727	618	488	580	709	686	612	494	506	493	465
Extruded pipe & tube	—	—	—	—	—	—	—	—	—	1	1	—	—	—
Rolled & continuous cast rod & bar	15	15	16	15	14	10	13	14	13	9	9	11	12	13
Bare wire	15	16	17	16	13	12	20	22	20	19	17	20	18	15
Drawn tube	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Awnings & canopies, total	143	156	177	145	137	93	152	221	173	150	116	112	113	93
Ingot	—	—	—	—	—	2	2	3	2	3	—	1	3	—
Total mill products	143	156	177	145	137	91	150	218	171	147	116	111	110	93
Sheet	121	131	150	122	117	73	127	186	142	124	97	92	90	77
Extruded shapes	19	21	23	19	16	14	18	25	23	17	13	12	13	11
Extruded pipe & tube	1	2	2	2	2	2	3	4	4	4	4	5	5	3
Drawn tube	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Welded tube	1	1	1	1	1	1	1	2	1	1	1	1	1	1
Residential siding, total	376	488	494	509	521	393	531	572	478	392	328	336	288	256
Ingot	—	—	—	—	—	—	—	—	—	—	—	1	2	1
Total mill products	376	488	494	509	521	393	531	572	478	392	328	335	286	255
Sheet	375	487	493	508	519	390	528	569	477	390	326	333	283	252
Foil	—	—	—	—	—	—	—	—	—	1	1	1	1	1
Extruded shapes	1	1	1	1	2	3	3	3	1	1	1	1	1	1
Bare wire	—	—	—	—	—	—	—	—	—	—	—	—	1	1
Mobile homes, total	156	208	267	274	264	197	280	456	441	393	278	300	230	147
Ingot	3	4	4	4	4	7	12	17	13	14	4	10	11	6
Total mill products	153	204	263	270	260	190	268	439	428	379	274	290	219	141
Sheet	102	144	192	196	197	148	213	328	307	285	202	218	165	108
Extruded shapes	51	60	71	74	63	42	55	111	121	94	72	72	54	33
Bridge, street & highway, total	100	126	123	122	120	107	179	174	155	138	122	123	123	118
Ingot	11	14	13	15	15	19	22	22	20	18	16	19	19	20
Total mill products	89	112	110	107	105	88	157	152	135	120	106	104	104	93
Sheet	52	66	68	63	61	46	100	94	71	56	46	43	49	37
Plate	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Foil	1	1	1	—	—	—	—	—	—	—	—	—	—	—
Extruded rod & bar	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—	—	—	1	1
Extruded shapes	18	22	20	20	20	21	27	29	32	33	31	33	30	33
Extruded pipe & tube	17	22	20	23	23	19	28	28	32	30	29	27	22	25
Rolled & continuous cast rod & bar	1	1	1	1	1	2	2	1	—	—	—	—	—	—

TRANSPORTATION — **Millions of pounds**

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967
Trucks & buses, total	286	488	428	427	359	162	366	402	278	233	166	209	183	140
Ingot	135	207	178	185	162	87	167	181	135	123	87	144	96	77
Total mill products	151	281	250	242	197	75	199	221	143	110	79	95	87	63
Sheet	77	158	137	137	114	36	103	123	76	63	47	57	54	33
Plate	4	8	7	7	7	4	11	14	8	6	4	5	5	4
Rolled & continuous cast rod & bar	2	5	5	3	2	1	2	2	1	1	—	—	—	—
Extruded shapes	44	69	64	63	52	24	57	59	40	28	22	25	21	21
Extruded pipe & tube	1	1	1	—	—	—	1	1	1	1	1	1	1	1
Drawn tube	1	1	1	1	1	—	—	—	—	—	—	—	—	—
Bare wire	—	1	1	1	—	—	1	1	1	1	—	—	—	—
Forgings	21	37	33	29	20	9	22	19	14	8	4	5	4	4[3]
Impacts	1	1	1	1	1	1	2	2	2	2	1	2	2	—
Passenger cars, total[2]	1,034	1,482	1,543	1,479	1,242	859	1,024	1,319	1,042	889	715	857	866	794
Ingot	737	989	975	952	856	644	763	998	795	699	569	685	703	650
Total mill products	297	493	568	527	386	215	261	321	247	190	146	172	163	144
Sheet	180	333	392	378	264	124	154	204	164	138	96	123	124	109
Plate	1	1	2	—	1	—	—	—	—	—	—	—	—	—
Foil	24	36	41	35	22	14	12	17	15	10	9	7	6	2
Rolled & continuous cast rod & bar	10	11	11	11	12	9	12	16	10	2	2	3	2	3
Extruded rod & bar	—[1]	—[1]	—[1]	—[1]	—[1]	—[1]	—[1]	—[1]	—[1]	1	1	1	1	1
Extruded shapes	61	73	77	58	51	42	54	43	24	13	19	23	15	15
Extruded pipe & tube	6	10	14	14	11	7	9	12	10	6	4	2	2	—
Drawn tube	7	12	13	13	10	6	7	15	15	13	8	6	6	8
Bare wire	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Forgings	6	14	14	14	9	8	7	6	2	1	1	1	1	4[3]
Impacts	1	2	3	3	5	4	4	6	5	4	4	4	4	—
Trailers & semi-trailers, total	242	386	422	364	278	146	402	455	366	253	224	289	257	144
Ingot	20	31	30	28	20	20	37	42	31	25	16	29	32	15
Total mill products	222	355	392	336	258	126	365	413	335	228	208	260	225	129
Sheet	88	143	165	141	104	45	150	176	152	101	89	122	105	65
Plate	9	14	15	11	10	6	14	18	12	12	11	12	10	6
Rolled & continuous cast rod & bar	1	2	2	2	2	2	4	5	3	1	1	1	1	1
Extruded shapes	122	194	208	179	140	71	192	209	164	111	105	123	108	56
Extruded pipe & tube	1	1	1	1	1	1	1	1	1	—	—	—	—	—
Bare wire	1	1	1	2	1	1	3	3	3	3	2	2	1	1
Forgings	—	—	—	—	—	—	1	1	—	—	—	—	—	—

** — These "selected markets" represent either those in which The Aluminum Association has marketing programs, or which are important aluminum market categories. They only account for a portion of aluminum shipments to each major market. Figures not available prior to 1967.*

(1) Extruded rod and bar combined with rolled and continuous cast rod and bar from 1972 to present.

(2) Shipments to "Passenger Cars" cover new domestic automobile production, spare parts, accessories and after-market parts. Shipments for light trucks and vans are included in Trucks and Buses.

(3) Impacts not reported separately prior to 1968, included under forgings for the year 1967.

SOURCE: Estimated by the Statistical and Marketing Research Committee of the Aluminum Association, Inc.

Trends in Selected Markets

Trends in Selected Markets*

CONSUMER DURABLES — Millions of pounds

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967
Air conditioners, freezers, refrigerators, total	248	302	354	299	283	183	303	375	312	271	281	300	254	219
Ingot	28	36	36	33	30	26	34	38	30	26	25	30	27	22
Total mill products	220	266	318	266	253	157	269	337	282	245	256	270	227	197
Sheet	106	116	138	127	134	94	164	208	189	185	196	207	183	161
Foil	81	108	117	91	81	38	67	84	55	28	28	31	18	16
Extruded rod & bar	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	—(1)	1	1	1	2	2
Extruded shapes	13	19	31	22	17	12	16	18	16	14	13	15	10	9
Extruded pipe & tube	12	13	18	13	11	8	12	14	13	11	11	13	10	5
Drawn tube	8	10	14	13	10	5	8	10	6	5	5	3	3	3
Rolled & continuous cast rod & bar	—	—	—	—	—	—	1	1	1	—	—	—	—	—
Bare wire	—	—	—	—	—	—	1	2	2	1	—	—	1	1
Portable appliances, total	55	64	68	53	55	47	74	90	79	69	63	74	64	55
Ingot	29	35	35	32	32	27	41	50	44	39	36	45	39	34
Total mill products	26	29	33	21	23	20	33	40	35	30	27	29	25	21
Sheet	22	24	27	16	18	16	28	36	31	27	25	27	23	18
Extruded shapes	2	2	2	2	2	2	3	3	3	2	2	2	2	1
Drawn tube	1	2	3	3	3	2	2	1	1	1	—	—	—	2
Rolled & continuous cast rod & bar	1	1	1	—	—	—	—	—	—	—	—	—	—	—
Cooking utensils, total	161	151	169	137	152	135	169	190	164	145	145	168	152	121
Ingot	24	26	26	24	26	24	29	32	25	21	20	26	25	20
Total mill products	137	125	143	113	126	111	140	158	139	124	125	142	127	101
Sheet	132	121	139	109	122	108	137	155	136	122	122	139	123	99
Plate	—	—	—	—	—	—	—	—	1	—	—	—	—	—
Extruded shapes	4	3	3	3	3	2	2	3	2	2	2	2	2	1
Drawn tube	—	—	—	—	—	—	—	—	—	—	1	1	2	1
Welded tube	—	—	—	—	—	—	1	—	—	—	—	—	—	—
Bare wire	1	1	1	1	1	1	—	—	—	—	—	—	—	—
CONTAINERS & PACKAGING														
Household & institutional foil, total	283	290	257	259	245	232	245	224	219	210	185	167	154	141
Metal cans total mill products	2,583	2,445	2,349	2,051	1,851	1,411	1,540	1,307	1,139	905	878	637	516	410
Sheet	2,583	2,445	2,349	2,051	1,851	1,411	1,540	1,307	1,139	905	878	637	515	409
Foil	—	—	—	—	—	—	—	—	—	—	—	—	1	1
Semi-rigid food containers Total mill products	160	159	176	168	166	150	156	173	165	148	143	147	124	102
Sheet	20	22	23	15	15	9	13	14	12	10	10	12	11	6
Foil	140	137	153	153	151	141	143	159	153	138	133	135	113	96

** — These "selected markets" represent either those in which The Aluminum Association has marketing programs, or which are important aluminum market categories. They only account for a portion of aluminum shipments to each major market.*

(1) Extruded rod and bar combined with rolled and continuous cast rod and bar from 1972 to present.

(2) Shipments to "Passenger Cars" cover new domestic automobile production, spare parts, accessories and after-market parts. Shipments for light trucks and vans are included in Trucks and Buses.

(3) Impacts not reported separately prior to 1968, included under forgings for the year 1967.

SOURCE: Estimated by the Statistical and Marketing Research Committee of the Aluminum Association, Inc.

U.S. Aluminum Supply

DESCRIPTION:

United States supply of aluminum consists of domestic primary production, imports of primary and mill products, and metal recovered from scrap. No adjustment is made in this presentation for shipments to or withdrawals from the government stockpile. This is shown on page 22.

Detailed data on United States supply of aluminum from 1942 to 1980 are shown in the table on this page.

For a longer historical picture of domestic primary production, see page 22. For the relationship of domestic primary production to world production, see pages 28-29. For a breakdown of imports, see pages 26-27. For further information on secondary recovery, see pages 24 and 25.

Total Supply 1942-1980

Millions of pounds

Year	Total supply, all sources	Domestic primary production	Imports			Secondary Recovery		
			Total	Primary(1)	Mill Products(3)	Total	Domestic(2)	From Imported Scrap(1)(2)
1942	1,660	1,042	225	213	12	393	393	(a)
1943	2,739	1,840	271	271	(a)	628	628	(a)
1944	2,409	1,553	202	201	1	654	651	3
1945	2,268	990	672	665	7	606	597	9
1946	1,486	819	85	83	2	582	556	26
1947	1,893	1,144	31	31	(a)	718	690	28
1948	2,128	1,247	178	166	12	703	574	129
1949	1,812	1,207	171	155	16	434	362	72
1950	2,423	1,437	377	354	23	609	487	122
1951	2,581	1,674	286	245	41	621	585	36
1952	2,786	1,875	289	256	33	622	609	13
1953	3,957	2,504	668	602	66	785	737	48
1954	4,034	2,921	472	443	29	641	626	15
1955	4,439	3,131	441	395	46	867	828	39
1956	4,746	3,358	511	462	49	877	856	21
1957	4,703	3,295	494	451	43	914	890	24
1958	4,429	3,131	572	511	61	726	708	18
1959	5,416	3,908	590	480	110	918	898	20
1960	5,306	4,029	392	309	83	885	876	9
1961	5,295	3,807	507	398	109	981	970	11
1962	6,163	4,236	751	622	129	1,176	1,164	12
1963	6,874	4,625	924	831	93	1,325	1,308	17
1964	7,435	5,105	901	788	113	1,429	1,414	15
1965	8,414	5,509	1,198	1,055	143	1,707	1,658	49
1966	9,075	5,937	1,302	1,047	255	1,836	1,775	61
1967	9,378	6,539	1,028	899	129	1,811	1,756	55
1968	10,080	6,510	1,508	1,371	137	2,062	1,994	68
1969	11,004	7,586	1,066	937	129	2,352	2,300	52
1970	10,912	7,952	894	700	194	2,066	2,000	66
1971	11,345	7,850	1,282	1,109	173	2,213	2,100	113
1972	12,005	8,245	1,508	1,319	189	2,252	2,252	—(2)
1973	12,697	9,058	1,154	1,016	138	2,485	2,485	—(2)
1974	13,499	9,807	1,128	1,018	110	2,564	2,564	—(2)
1975	11,229	7,758	999	868	131	2,472	2,472	—(2)
1976	12,785	8,503	1,340	1,151	189	2,942	2,942	—(2)
1977	13,792	9,077	1,505	1,340	165	3,210	3,210	—(2)
1978	14,954	9,608	2,000	1,516	484	3,346	3,346	—(2)
1979	15,168	10,046	1,568	1,142	426	3,554	3,554	—(2)
1980	15,064	10,259	1,329	1,161	168	3,476	3,476	—(2)

(a) Less than 0.5 million pounds.

(1) Some imports of "starter" metal, classified by the Bureau of The Census in 1954-1957 as scrap, have been classified as primary metal, as estimated by BDC.

(2) Domestic secondary data are recoverable metal content for estimated total scrap consumption, as estimated by the Bureau of Mines. Before 1972 total supply included both domestic secondary recovery and an estimated 90 percent recovery from reported scrap imports. Beginning in 1972 the Bureau of Mines required reporting of imported scrap recovery data and these data are included in the domestic secondary recovery figures beginning with that year.

(3) Starting in 1970, includes reimports of metal exported for processing and returned for further processing (TSUSA 806.30)

SOURCE: U.S. Department of Commerce, Bureau of Domestic Business Development, Office of Basic Industries, and Bureau of Mines, Department of Interior.

Supply

The United States Government's aluminum stockpile, following World War II, was formed to provide the nation with a supply of aluminum for mobilization purposes. The data in the table below represent the best figures available from different sources. Total supply, unadjusted for stockpile changes is on page 21.

Total Supply Adjusted for Stockpile 1948-1980

Millions of pounds

Year	Total supply adjusted for stockpile	Total supply, all sources	Shipments from stockpile	Shipments to stockpile
1948	2,128	2,128	—	*(a)*
1949	1,764	1,812	—	48
1950	2,368	2,423	—	55
1951	2,470	2,581	17	128
1952	2,804	2,786	37	19
1953	3,573	3,957	—	384
1954	2,866	4,034	—	1,168
1955	4,095	4,439	—	344
1956	4,705	4,746	—	41
1957	4,009	4,703	—	694
1958	3,721	4,429	—	708
1959	5,250	5,416	—	166
1960	5,218	5,306	—	88
1961	5,191	5,295	—	104
1962	6,080	6,163	—	83
1963	6,874	6,874	49	49
1964	7,542	7,435	107	—
1965	8,487	8,414	73	—
1966	9,727	9,075	652	—
1967	9,501	9,378	123	—
1968	10,193	10,080	113	—
1969	11,283	11,004	279	—
1970	10,961	10,912	49	—
1971	11,345	11,345	*(a)*	—
1972	12,017	12,005	12	—
1973	14,158	12,697	1,461	—
1974	14,520	13,499	1,021	—
1975	11,234	11,229	5	—
1976	12,803	12,785	18	—
1977	13,792	13,792	—	—
1978	14,954	14,954	—	—
1979	15,168	15,168	—	—
1980	15,064	15,064	—	—

(a) Less than 0.5 million pounds.

SOURCES: General Services Administration; U.S. Department of Commerce; Industry Sources.

DESCRIPTION:

In the United States, primary production of aluminum was begun in 1888 by the Pittsburgh Reduction Company. Data on aluminum production started in 1893, covering the industry from its very early period.

Production of Primary Aluminum in U.S.A. 1893-1980

Year	Millions of pounds	Year	Millions of pounds	Year	Millions of pounds
1893	0.2	1921	54.5	1951	1,673.8
1894	0.5	1922	73.6	1952	1,874.7
1895	0.5	1923	128.5	1953	2,504.0
		1924	150.6	1954	2,921.1
		1925	140.1	1955	3,131.4
1896	1.0	1926	147.4	1956	3,357.9
1897	2.4	1927	163.6	1957	3,295.4
1898	3.0	1928	210.5	1958	3,131.1
1899	3.3	1929	228.0	1959	3,908.2
1900	5.1	1930	229.0	1960	4,029.0
1901	5.8	1931	177.5	1961	3,807.4
1902	5.8	1932	104.9	1962	4,235.9
1903	6.6	1933	85.1	1963	4,625.1
1904	8.1	1934	74.2	1964	5,105.5
1905	10.[illegible]	1935	119.3	1965	5,509.0
1906[1]	14.[illegible]	1936	224.9	1966	5,936.7
1907	16.[illegible]	1937	292.7	1967	6,538.5
1908	10.7	1938	286.9	1968	6,510.1
1909	2[illegible].1	1939	327.1	1969	7,586.1
1910	[illegible]5.4	1940	412.6	1970	7,952.3
1911	38.4	1941	618.1	1971	7,850.4
1912	41.8	1942	1,042.2	1972	8,244.8
1913	47.3	1943	1,840.4	1973	9,058.2
1914	58.0	1944	1,552.9	1974	9,806.9
1915	90.5	1945	990.1	1975	7,758.3
1916	115.1	1946	819.3	1976	8,502.8
1917	129.9	1947	1,143.5	1977	9,077.4
1918	124.7	1948	1,246.9	1978	9,607.6
1919	128.5	1949	1,206.9	1979	10,046.2
1920	138.0	1950	1,437.2	1980	10,259.4

(1) Data prior to 1907 represent years ending August 31. Production during last four months of 1906 totaled 5.4 million pounds.

SOURCES: U.S. Department of the Interior, Bureau of Mines and the Aluminum Association, Inc.

DESCRIPTION:

There were twelve domestic primary producing companies as of December 31, 1980. They are Aluminum Company of America, Alumax, Inc. (including 50% interest in Intalco and Eastalco),

Primary Aluminum Capacity 1948-1980

Year[1]	Total	Alcoa	Reynolds
1948	641,500	325,000	188,000
1949	654,000	294,000	227,000
1950	751,250	369,750	238,500
1951	800,750	371,250	259,500
1952	1,155,700	484,250	353,250
1953	1,335,700	548,000	359,500
1954	1,413,200	570,500	414,500
1955	1,634,700	706,500	440,000
1956	1,775,500	792,500	488,500
1957	1,[illegible]39,000	792,500	488,500
1958	2,194,250	798,250	601,000
1959	2,402,750	798,250	701,000
1960	2,468,750	853,250	701,000
1961	2,483,750	853,250	701,000
1962	2,488,750	853,250	701,000
1963	2,510,750	853,250	701,000
1964	2,599,100	858,100	725,000
1965	2,756,284	950,000	725,000
1966	3,165,284	1,050,000	815,000
1967	3,321,000	1,150,000	815,000
1968	3,686,000	1,200,000	895,000
1969	3,884,300	1,325,000	935,000
1970	4,215,000	1,325,000	945,000
1971	4,666,000	1,475,000	975,000
1972	4,771,000	1,570,000	975,000
1973	4,893,000	1,570,000	975,000
1974	4,916,000	1,575,000	975,000
1975	5,021,500	1,575,000	975,000
1976	5,192,900	1,675,000	975,000
1977	5,193,400	1,675,000	975,000
1978	5,224,390	1,700,000	975,000
1979	5,281,600	1,700,000	975,000
1980	5,503,600	1,725,000	975,000

DESCRIPTION:

The Bureau of The Census began reporting aluminum inventory in 1968. The figures include all forms of scrap, ingot, metal in process and finished products.

Anaconda Aluminum Company, Consolidated Aluminum Corporation (including 66% interest in Ormet), Howmet Aluminum Corporation (50% interest in Eastalco and Intalco), Kaiser Aluminum & Chemical Corporation, Martin Marietta Aluminum Incorporated, National Aluminum Company (50% interest in National-Southwire), Noranda Aluminum Incorporated, Revere Copper and Brass Incorporated (including 34% interest in Ormet), Reynolds Metals Company and Southwire Company (50% interest in National-Southwire).

Short Tons

Kaiser	Alumax	Anaconda	Consolidated[2]	Howmet	Martin Marietta	Revere	Noranda	National-Aluminum	Southwire	Olin[2]
128,500	—	—	—	—	—	—	—	—	—	—
133,000	—	—	—	—	—	—	—	—	—	—
143,000	—	—	—	—	—	—	—	—	—	—
170,000	—	—	—	—	—	—	—	—	—	—
318,200	—	—	—	—	—	—	—	—	—	—
428,200	—	—	—	—	—	—	—	—	—	—
428,200	—	—	—	—	—	—	—	—	—	—
428,200	—	60,000	—	—	—	—	—	—	—	—
434,500	—	60,000	—	—	—	—	—	—	—	—
498,000	—	60,000	—	—	—	—	—	—	—	—
537,000	—	60,000	—	—	54,000	49,000	—	—	—	95,000
609,500	—	60,000	—	—	54,000	61,200	—	—	—	118,800
609,500	—	65,000	—	—	60,000	61,200	—	—	—	118,800
609,500	—	65,000	—	—	75,000	61,200	—	—	—	118,800
609,500	—	65,000	—	—	80,000	61,200	—	—	—	118,800
609,500	—	67,000	20,000	—	80,000	61,200	—	—	—	118,800
650,000	—	67,000	32,000	—	87,000	61,200	—	—	—	118,800
650,000	—	100,000	62,000	—	87,000	62,657	—	—	—	121,627
670,000	76,000	100,000	106,000	76,000	88,000	62,657	—	—	—	121,627
670,000	76,000	100,000	106,000	76,000	88,000	81,600	—	—	—	158,400
690,000	127,500	175,000	140,000	127,500	91,000	81,600	—	—	—	158,400
710,000	130,500	175,000	140,000	130,500	91,000	81,600	—	3,650	3,650	158,400
710,000	130,500	180,000	140,000	217,500	91,000	137,600	—	90,000	90,000	158,400
710,000	130,500	180,000	175,000	217,500	201,000	193,600	70,000	90,000	90,000	158,400
710,000	130,500	180,000	175,000	217,500	201,000	197,000	70,000	90,000	90,000	165,000
710,000	130,500	300,000	177,000	217,500	201,000	197,000	70,000	90,000	90,000	165,000
724,000	130,500	300,000	342,000	217,500	205,000	197,000	70,000	90,000	90,000	—
724,000	219,000	300,000	352,000	217,500	210,000	199,000	70,000	90,000	90,000	—
724,000	218,700	300,000	352,000	218,700	210,000	199,500	140,000	90,000	90,000	—
724,000	218,700	300,000	352,000	218,700	210,000	200,000	140,000	90,000	90,000	—
724,000	218,700	300,000	352,000	218,700	210,000	203,200	140,000	90,000	90,000	—
724,000	218,700	360,000	352,000	218,700	210,000	203,200	140,000	90,000	90,000	—
724,000	415,700	360,000	352,000	218,700	210,000	203,200	140,000	90,000	90,000	

(1) Capacities shown are as reported for December 31. They include nominal ownership of plants owned by more than one company.
(2) Consolidated acquired the aluminum business of Olin Corporation in 1974. *SOURCE: The Aluminum Association, Inc.*

U.S. Suppliers' Inventories 1967-1980

Millions of pounds at end of year

Year	Total	Type of Supplier: Integrated	Non Integrated	Secondary Smelter	Year	Total	Type of Supplier: Integrated	Non Integrated	Secondary Smelter	Year	Total	Type of Supplier: Integrated	Non Integrated	Secondary Smelter
1967	3,651	2,893	518	150	**1971**	5,026	4,160	688	178	**1976**	5,701	4,781	687	234
1968	3,725	2,972	625	128	**1972**	4,861	4,070	621	171	**1977**	5,706	4,778	687	241
1969	3,785	2,943	697	145	**1973**	4,366	3,608	607	151	**1978**	5,494	4,460	776	258
1970	4,387	3,588	621	178	**1974**	5,156	4,202	753	201	**1979**	5,125	4,124	768	233
					1975	5,999	5,199	598	202	**1980**	5,076	4,018	797	261

Detail may not add due to rounding.
SOURCE: U.S. Department of Commerce, Bureau of the Census Current Industrial Report M33-2.

Supply

Aluminum Scrap Consumption and Recovery

DESCRIPTION:

Recovery of aluminum from scrap, an important source of supply, is shown on page 24 and 25. Two sets of scrap data are tabulated. The scrap consumption figures are on a gross weight basis as reported by plants consuming scrap. The aluminum recovery figures are on a recovered metal basis, that is the content of aluminum base alloy recovered from gross weight consumed. The figures in this table are consistent with domestic secondary recovery on page 21.

The aluminum recovery data are shown by source, that is by new and old scrap. New scrap, generated by plants making end products, and old scrap recovered from metal that has been used by consumers, are returned to plants making ingot and mill products and thus add to the total metal supply.

Through 1954, data on scrap consumption and recovery are based on complete reporting. Beginning in 1955, reported figures are expanded to industry totals by the Bureau of Mines to allow for a number of firms who do not report. In 1961, sweated pig consumption data were improved and included in old scrap.

Recovery of new scrap and old scrap over the past ten years has been about 22 percent of total supply (23.1 percent in 1980). However, this figure does not include "run-around" scrap consumed by the generating companies.

Aluminum Can Reclamation Data 1972-1980

Year	Pounds of Aluminum Collected (millions)	No. of Aluminum Cans Collected (billions) [3]	Percent of Aluminum Cans Collected [4]
1972	53[1]	1.2	15.4
1973	68[1]	1.5	15.2
1974	103[1]	2.3	17.5
1975	180[2]	4.1	26.9
1976	212[2]	4.9	24.9
1977	280[2]	6.6	26.4
1978	340[2]	8.0	27.4
1979	360[2]	8.5	25.7
1980	609[2]	14.8	37.3

(1) Represents total industry; includes additional 1, 5, and 18 million pounds in the years 1972, 1973 and 1974 respectively which accounts for all-aluminum cans collected by non-members of the Aluminum Association.

(2) SOURCE: Net receipts—U.S. Department of the Interior, Bureau of Mines.

(3) Calculation based on an Association can weight survey.

(4) Based on Can Manufacturers Institute aluminum beverage can shipments data lagged one quarter.

p — preliminary

Aluminum Scrap Consumption and Recovery 1946-1980

Short Tons

Year	SCRAP CONSUMPTION Total Industry[1]	SCRAP CONSUMPTION (Gross Weight Basis) As Reported Total	Secondary Smelters	Primary Producers[2][3]	Others[4]	RECOVERY[5] (Recovered Metal Basis) Total Industry[1]	From New Scrap	From Old Scrap
1946	344,000	344,000	238,000	100,000	6,000	278,073	187,538	90,535
1947	411,070	411,070	312,087	90,009	8,974	344,837	180,990	163,847
1948	324,495	324,495	217,666	100,454	6,375	286,777	191,129	95,648
1949	199,039	199,039	128,472	65,602	4,965	180,762	136,166	44,596
1950	273,192	273,192	192,047	68,316	12,829	243,666	167,308	76,358
1951	332,296	332,296	232,339	80,463	19,494	292,608	216,017	76,591
1952	347,730	347,730	255,083	77,939	14,708	304,522	233,258	71,264
1953	413,333	413,333	276,279	116,011	21,043	368,566	289,626	78,940
1954	350,515	350,515	239,069	91,446	20,000	313,047	246,609	66,438
1955	490,000	427,045	313,879	86,739	26,427	414,000	314,500	99,500
1956	517,000	439,343	331,811	88,754	18,778	428,000	331,000	97,000
1957	532,000	463,000	345,000	94,000	24,000	445,000	347,500	97,500
1958	430,000	375,564	275,762	77,282	22,520	354,000	274,500	79,500
1959	539,000	475,964	384,506	62,917	28,541	449,000	345,000	104,000
1960	523,000	441,479	353,889	54,366	33,224	438,000	343,000	95,000
1961	579,000	498,116	331,705	44,572	121,839	485,000	329,500	155,500
1962	700,000	594,873	442,168	36,520	116,185	582,000	415,500	166,500
1963	780,000	647,489	493,168	44,885	109,436	654,000	495,000	159,000
1964	850,000	712,251	538,992	58,928	114,331	707,000	545,000	162,000
1965	970,000	816,620	579,844	94,985	141,791	829,000	624,000	205,000
1966	1,080,000	896,334	638,757	125,487	132,090	887,500	700,250	187,250
1967	1,060,000	882,795	617,145	122,987	142,663	878,000	703,500	174,500
1968	1,218,000	1,015,070	699,289	152,176	163,605	997,000	816,000	181,000
1969	1,331,000	1,109,097	742,118	196,857	170,122	1,150,000	950,000	200,000
1970	1,167,000	972,533	650,327	153,247	168,959	1,000,000	803,000	197,000
1971	1,210,000	1,004,778	639,909	170,755	194,114	1,050,000	834,000	216,000
1972	1,342,000	1,152,433	706,484	205,231	240,718	1,126,000	876,000	250,000
1973	1,481,000	1,262,439	736,819	212,545	313,075	1,242,000	977,000	265,000
1974	1,448,000	1,206,061	630,223	238,958	336,880	1,282,000	978,000	304,000
1975	1,454,000	1,232,155	611,540	342,810	277,805	1,236,000	899,000	337,000
1976	1,741,000	1,465,462	758,992	365,190	341,280	1,471,000	1,062,000	409,000
1977	1,854,000	1,568,215	841,258	425,733	301,224	1,605,000	1,074,000	531,000
1978	1,911,000	1,616,514	882,697	437,360	296,457	1,673,000	1,098,000	575,000
1979	2,020,000	1,705,031	922,159	442,262	340,610	1,777,000	1,163,000	614,000
1980	1,982,000	1,693,633	884,255	541,771	267,607	1,738,000	1,058,000	680,000

(1) As reported, 1946-54; estimates expanded from reported figures, 1955-80.
(2) For 1951-53 includes small amounts reported consumed by non-integrated fabricators.
(3) Represents 100 per cent scrap consumption coverage by primary producers.
(4) Most consumption of sweated pig apparently not reported by "others" prior to 1961.
(5) Recovery from sweated pig included in new scrap 1946-60, old scrap 1961-80.

SOURCE: U.S. Department of the Interior, Bureau of Mines and U.S. Department of Commerce, Bureau of Industrial Economics.

U.S. Foreign Trade
Statistics

United States Imports and Exports

United States Imports and Exports 1960-1980

PRODUCT	1980	1979	1978	1977	1976	1975	1974	1973	1972
Total Imports	1,453,529	1,714,794	2,194,902	1,688,604	1,524,971	1,120,267	1,287,966	1,256,267	1,619,403
TOTAL INGOT & SEMIFABRICATED	1,329,404	1,567,857	2,000,058	1,505,431	1,339,742	998,468	1,127,430	1,154,272	1,507,745
INGOT	1,161,328	1,141,517	1,515,576	1,340,658	1,150,741	868,281	1,017,722	1,016,068	1,318,784
SEMIFABRICATED, TOTAL	168,076	426,339	484,482	164,773	189,001	130,187	109,708	138,204	188,961
Sheet & plate, Total	126,117	357,285	433,684	128,675	150,543	107,087	69,690	99,460	138,467
Circles & disks	7,757	21,529	20,473	15,363	16,949	10,492	11,634	15,503	19,815
Other	118,360	355,756	413,211	113,312	133,594	96,595	58,056	83,957	118,652
Foil, Total	9,099	17,925	21,451	9,763	10,993	4,465	13,637	18,366	24,531
Over .00035"	3,532	6,020	7,489	3,679	4,593	2,301	8,931	9,351	13,235
Not over .00035"	4,116	10,036	13,626	5,141	5,253	1,551	3,358	8,115	10,642
Capacitor	1,452	1,870	1,336	943	1,147	615	1,348	900	654
Rod & bar	16,343	37,959	22,133	18,146	20,907	12,718	18,813	13,240	16,774
Wire	2,256	6,902	3,840	3,526	4,072	2,590	3,355	2,548	3,566
Cable	144	146	77	438	507	917	1,519	676	833
Angles, shapes, etc.	1,205	1,664	1,793	2,082	490	932	647	569	577
Pipe & tube	682	1,098	868	731	919	842	1,193	2,909	3,763
Powder	12,228	3,361	637	1,415	570	637	854	436	451
SCRAP	119,603	136,632	184,305	179,789	171,427	109,613	149,486	93,616	104,601
DROSS & SKIMMINGS	4,522	10,305	10,539	3,384	13,802	12,186	11,050	8,379	7,057
Total Exports	3,082,645	1,637,086	1,136,424	915,508	1,038,439	938,770	1,087,467	1,155,316	684,190
TOTAL INGOT & SEMIFABRICATED	2,193,283	1,022,924	747,409	712,182	820,522	804,968	927,150	925,157	552,111
INGOT	1,429,813	401,300	253,234	195,542	304,732	371,770	415,668	459,156	216,637
SEMIFABRICATED, TOTAL	763,470	621,625	494,174	516,640	515,790	433,268	511,482	466,001	335,473
Sheet & plate	425,792	404,509	291,764	344,309	343,014	276,321	366,910	327,871	242,695
Foil	37,911	20,566	11,902	13,062	14,252	10,375	16,865	8,109	4,906
Rod & bar	136,736	61,510	59,672	27,433	54,913	51,577	46,617	59,855	38,937
Wire, bare	57,737	30,129	23,906	15,240	18,364	21,481	16,008	14,179	10,352
Other conductor	29,031	30,600	56,121	58,137	27,630	27,350	8,541	4,209	10,107
Angles, shapes, etc.	25,528	22,402	17,110	8,494	9,761	14,120	18,533	17,019	8,344
Pipe & tube, Total	16,500	16,178	19,115	21,370	19,755	15,107	17,410	12,297	6,686
Electric conduit	1,569	1,901	3,493	7,230	4,577	3,266	2,245	2,346	1,398
Other	14,931	14,277	15,622	14,140	15,178	11,841	15,165	9,951	5,288
Powder	16,047	14,356	14,584	14,804	16,879	6,920	8,733	11,908	4,514
Castings	14,992	17,840	na	8,146	7,759	5,774	7,513	5,656	4,442
Forgings	3,195	3,526	na	5,643	3,463	4,243	4,352	4,899	4,492
SCRAP	889,363	614,162	389,015	203,326	217,917	133,802	160,317	230,159	132,079
Net Imports*	−1,629,116	77,708	1,058,478	773,096	486,532	181,497	200,499	100,951	935,213

Thousands of pounds

1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
1,413,910	976,353(1)	1,142,233	1,600,438	1,105,344	1,387,923	1,270,486	936,839	948,247	763,623	519,156	402,643
1,282,158	894,110	1,065,924	1,508,934	1,028,126	1,301,958	1,198,141	901,467	924,342	750,631	507,152	392,559
1,109,365	700,335	937,339	1,371,399	899,434	1,047,011	1,055,032	788,322	831,200	621,911	398,447	309,413
172,793	193,776	128,584	137,535	128,692	254,947	143,109	113,145	93,142	128,720	108,705	83,146
126,694	136,298	88,902	99,317	85,828	210,432	117,355	90,424	75,313	99,370	80,982	61,281
16,081	18,568	14,028	15,513	12,391	25,449	14,475	14,098	11,311	12,868	9,374	9,018
110,613	117,730	74,875	83,804	73,437	184,984	102,880	76,326	64,001	86,503	71,608	52,263
25,823	28,125	3,848	4,213	3,877	5,956	8,232	10,587(2)	9,634(2)	10,120	9,904	9,660
12,482	13,994	2,407	2,571	2,717	3,533	2,958	3,461	3,310	3,934	4,042	3,852
12,649	13,813	1,106	1,315	831	2,065	4,908	6,958	6,274	6,186	5,861	5,807
692	326	335	327	329	358	366	169	50 (3)	—	—	—
12,755	18,216	23,068	22,462	25,120	27,792	11,871	8,161	6,860 (4)	19,005	17,639	12,073
2,785	4,153	3,839	3,226	2,738	4,063	3,147	2,382	658 (5)	—	—	—
765	1,850	927	644	3,060	2,492	1,181	255	83 (3)	—	—	—
897	545	200	695	4,139	2,049	82	118	43 (3)	—	—	—
2,740	4,253	6,254	6,400	2,937	1,179	531	805	136 (3)	—	—	—
333	328	1,546	577	992	983	709	412	315	225	181	132
125,680	73,559	57,700	75,042	60,977	67,233	54,059	16,304	18,612	12,992	12,004	10,084
6,072	8,684	18,610	16,461	16,241	18,732	18,286	19,068	5,293(3)	—	—	—
618,979	1,266,387	1,172,016	739,556	760,526	677,978	647,702	719,361	611,443	544,840	489,815	776,157
557,629	1,152,070	999,505	640,703	661,765	580,647	570,608	582,132	469,363	413,772	325,805	617,131
224,592	816,904	688,826	360,560	418,018	376,479	407,286	417,244	330,679	302,395	257,722	569,959
333,037	335,166	310,679	280,143	233,445	204,168	163,322	164,888	138,684	111,377	68,083	47,172
249,778	231,115	231,563	203,116	170,303	148,107	104,931	107,924	77,740	45,568	40,297	26,644
4,238	4,001	2,914	2,138	2,072	2,259	3,071	3,332	3,664	4,974	3,395	2,636
24,715	33,054	31,506	25,007	22,246	18,392	21,404	22,575	22,007	28,277	3,397	3,459
6,190	16,518	8,436	7,185	9,600	7,045	4,678	17,263	24,451	22,108	11,203	5,283
20,937	19,699	11,449	19,709	9,676	9,377	11,178					
7,773	11,183	8,344	7,075	7,191	6,295	6,721	9,022	6,980	6,411	6,788	6,094
8,901	6,563	5,148	6,285	4,465	5,828	5,566					
1,623	1,325	1,610	2,357	1,587	2,405	1,556					
7,278	5,237	3,538	3,928	2,878	3,422	4,010					
3,482	6,155	2,598	2,574	2,261	1,815	1,259	1,109	980	956	596	676
3,598	3,293	3,853	1,743	1,543	1,831	4,512	3,663	2,862	3,083	2,407	2,380
3,525	3,585	4,868	5,311	4,087	3,219						
61,351	114,317	172,511	98,853	109,063	97,331	77,094	137,229	142,080	131,068	164,010	159,026
794,931	−290,034	−29,783	860,882	344,018	709,945	622,784	217,478	336,804	218,783	29,341	−373,514

Detail may not add to totals due to rounding.

(1) Beginning 1970, includes reimports of metal exported for processing and returned for further processing (TSUSA 806.30)

(2) Includes backed foil 1963 and 1964.

(3) Reported beginning September 1963.

(4) Excludes rod under 0.375" beginning September 1963.

(5) Reported beginning September 1963, includes rod under 0.375".

** Imports less exports.*

SOURCE: U.S. Department of Commerce, Bureau of Industrial Economics.

World Primary Aluminum Production

World Primary Aluminum Production

Thousands of short tons

COUNTRY	1980	1979	1978	1977	1976	1975	1974	1973	1972
WORLD TOTAL(1)	16,925	16,061	15,582	15,189	13,913	13,387	14,516	13,364	12,133
NORTH AMERICA—Total	6,362	6,019	6,008	5,659	4,996	4,901	6,073	5,610	5,178
Canada	1,184	948	1,156	1,073	698	978	1,125	1,038	1,012
United States	5,130	5,023	4,804	4,539	4,251	3,879	4,903	4,529	4,122
Mexico	48	48	48	47	47	44	45	43	44
SOUTH AMERICA—Total	851	722	407	351	303	271	233	206	182
Argentina	152	138	59	55	48	27	1	—	—
Brazil	287	262	205	184	153	134	139	123	107
Surinam	51	71	61	64	51	46	38	57	47
Venezuela	361	251	82	48	51	64	55	26	28
ASIA—Total(1)	2,127	2,032	2,089	2,171	1,861	1,774	1,677	1,767	1,594
Bahrain	139	139	135	134	135	128	130	113	69
China, Mainland(1)	400	400	400	385	350	220	165	165	150
China, Taiwan	70	62	56	33	28	31	35	39	35
India	204	233	236	197	231	184	142	170	197
Iran	11	15	28	23	34	56	54	37	7
Japan	1,203	1,113	1,166	1,310	1,013	1,117	1,232	1,209	1,119
North Korea(1)	11	11	11	11	11	—	—	—	—
South Korea	23	24	22	20	20	20	19	34	17
Turkey	38	35	35	57	39	18	—	—	—
United Arab Emirates	28	10	—	—	—	—	—	—	—
AFRICA—Total	482	414	377	414	382	301	308	273	268
Cameroon	48	48	54	61	64	57	52	49	51
Egypt	132	85	111	98	65	2	—	—	—
Ghana	207	186	123	169	167	158	173	166	159
South Africa	95	95	89	86	86	84	83	58	58
OCEANIA—Total	505	468	457	433	410	356	364	356	324
Australia	334	298	290	273	256	236	242	228	227
New Zealand	171	170	167	160	154	120	122	128	97
EUROPE—Total(1)	6,679	6,406	6,243	6,162	5,961	5,784	5,758	5,152	4,587
Common Market Countries—Total(3)	2,305	2,229	2,215	2,197	2,071	2,007	2,031	1,672	1,460
France	476	435	431	440	424	422	434	396	433
Germany, West	806	817	816	818	768	747	759	587	490
Italy	321	297	298	287	228	210	238	203	165
The Netherlands	289	284	288	266	282	288	277	209	183
United Kingdom	413	396	382	386	369	340	323	277	189
European Free Trade Assoc.—Total	1,105	1,090	1,064	1,048	1,028	994	1,096	1,045	932
Austria	104	102	101	101	98	98	101	98	92
Iceland	81	80	81	82	72	68	77	79	50
Norway	718	727	704	686	681	656	731	684	614
Sweden	107	90	90	91	91	85	91	90	84
Switzerland	95	91	88	88	86	87	96	94	92
Other—Total(1)	3,269	3,087	2,964	2,917	2,862	2,783	2,631	2,435	2,195
Czechoslovakia(1)(2)	42	41	41	40	40	48	55	53	47
Germany, East(1)	66	66	72	72	65	65	65	101	65
Greece	161	155	159	143	148	150	164	159	143
Hungary	81	79	79	79	78	77	76	75	75
Poland(4)	105	106	110	115	114	113	112	112	112
Romania(5)	266	239	235	230	224	225	206	156	134
Spain	426	286	234	233	232	232	211	179	159
U.S.S.R.(1)	1,940	1,930	1,840	1,810	1,760	1,690	1,580	1,500	1,380
Yugoslavia	182	185	194	195	201	183	162	100	80

(1) Estimated by the Bureau of Mines, Department of the Interior.
(2) Includes secondary unalloyed ingot.
(3) Reflects series revision incorporating the United Kingdom into the Common Market in 1973.
(4) Includes primary alloyed ingot.

1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
11,375	10,641	9,885	8,839	8,343	7,583	6,951	6,553	5,862	5,580	5,185	4,950
5,090	5,085	4,908	4,259	4,268	3,881	3,606	3,415	3,038	2,808	2,567	2,777
1,121	1,072	1,079	979	975	890	831	843	719	690	663	762
3,925	3,976	3,793	3,255	3,269	2,968	2,754	2,553	2,313	2,118	1,904	2,014
44	37	36	25	24	22	21	19	6	—	—	—
183	149	140	102	79	58	35	29	19	22	22	20
—	—	—	—	—	—	—	—	—	—	—	—
98	63	62	43	42	30	34	29	19	22	22	20
60	61	59	48	34	28	1	—	—	—	—	—
25	25	19	11	3	—	—	—	—	—	—	—
1,390	1,173	924	785	632	593	529	487	431	350	310	264
11	—	—	—	—	—	—	—	—	—	—	—
150	140	130	100	88	110	110	110	110	110	110	88
29	30	24	22	17	19	21	21	13	12	10	9
196	178	136	132	106	92	74	62	61	39	20	20
—	—	—	—	—	—	—	—	—	—	—	—
985	808	627	531	421	372	324	293	247	189	169	147
—	—	—	—	—	—	—	—	—	—	—	—
19	17	7	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
210	183	177	170	97	54	56	57	58	58	52	48
56	58	52	50	53	54	56	57	58	58	52	48
—	—	—	—	—	—	—	—	—	—	—	—
122	125	125	120	44	—	—	—	—	—	—	—
32	—	—	—	—	—	—	—	—	—	—	—
270	227	139	107	102	101	97	88	46	18	15	13
246	227	139	107	102	101	97	88	46	18	15	13
24	—	—	—	—	—	—	—	—	—	—	—
4,232	3,824	3,597	3,416	3,164	2,897	2,629	2,477	2,269	2,325	2,220	1,827
1,285	1,049	973	940	896	874	810	754	694	651	626	573
422	420	410	403	398	401	375	348	329	325	308	263
471	341	290	284	279	269	258	242	230	196	190	186
132	161	156	157	141	141	137	127	101	91	92	92
128	83	80	54	35	22	—	—	—	—	—	—
131	44	37	42	43	41	40	36	34	38	36	32
916	889	832	758	602	551	500	477	418	381	328	318
100	99	99	95	87	87	87	86	84	82	75	75
45	42	14	—	—	—	—	—	—	—	—	—
584	576	560	516	398	357	304	288	248	227	189	182
83	71	74	62	38	32	35	34	19	18	17	18
104	101	85	85	80	76	74	71	66	55	47	44
2,031	1,886	1,792	1,718	1,666	1,472	1,319	1,245	1,157	1,293	1,266	936
41	34	35	72	72	68	68	65	65	65	55	44
65	65	60	55	88	88	77	72	50	50	50	44
128	96	90	84	79	40	—	—	—	—	—	—
74	73	71	69	68	67	64	63	61	58	56	55
110	109	107	103	102	61	52	53	51	53	52	29
123	112	99	84	58	52	25	—	—	—	—	—
139	132	117	98	86	70	57	55	50	46	42	32
1,300	1,212	1,160	1,100	1,064	980	930	900	840	990	980	705
51	53	53	53	49	46	46	38	40	31	30	28

Detail may not add to totals due to rounding.

SOURCE: Bureau of Mines, U.S. Department of the Interior.

Aluminum Supply and Apparent Consumption—Selected Countries

Per Capita Aluminum Consumption of Selected Countries

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
Argentina*	4.9	7.1	4.9	5.9	6.2	8.3	9.0	8.7	9.7	6.6
Australia*	38.9	37.6	32.5	31.3	31.0	25.7	33.6	29.1	23.4	24.7
Austria	27.6	25.0	23.7	24.7*	23.3*	24.4*	20.4*	19.8*	17.9*	18.2*
Belgium	20.6	20.3	19.6	21.4	23.4	16.5	23.0	21.9	18.1	15.4
Brazil*	6.5	6.4	5.8	5.8	5.3	5.2	4.9	4.1	3.6	2.9
Cameroon	na	4.7	3.9	5.3	8.4	6.8	8.0	3.6	5.8	4.5
Canada*	35.5	37.1	35.7	31.5	30.8	28.4	35.4	33.1	30.6	29.8
Finland	17.2	17.8	14.8	19.3	20.6	21.3	22.4	17.5	14.6	13.2
France*	30.1	28.1	25.4	26.0	26.5	20.5	25.0	24.8	21.6	19.5
Germany, West*	48.6	48.6	42.9	41.8	42.6	32.2	36.1	38.8	33.7	32.1
Greece	20.1	15.7	8.7	9.0	8.1	9.8	8.6	7.0	6.9	7.7
Iceland	21.9	20.4	15.9	18.9	18.2	16.5	22.5	16.0	20.0	18.4
Indonesia	na	0.6	0.6	0.6	0.5	2.9	1.5	1.9	0.2	0.2
Iran	na	na	na	4.3*	4.2*	3.0*	2.8*	2.0*	1.7	1.6
Ireland	9.6	10.9	10.6	7.9	9.1	4.1	10.6	7.8	3.4	4.5
Israel	na	na	na	9.4	9.9	na	16.9	9.4	9.7	11.3
Italy*	35.0	28.4	24.2	23.8	21.8	15.2	23.3	21.0	17.7	15.8
Japan*	45.8	42.6	42.8	35.4	35.8	26.9	32.5	37.7	32.4	25.8
Mexico*	5.6	4.9	4.1	2.6	3.4	3.5	3.8	3.8	3.4	2.5
The Netherlands	27.2*	26.0*	23.0*	25.1*	29.1*	18.3*	17.1*	14.8*	13.4	16.0
New Zealand	17.2	19.0*	17.1 *	17.6*	20.7 *	15.1*	27.3*	23.0*	13.2*	16.0*
Nicaragua	na	na	0.5	1.3	1.0	1.4	1.8	1.1	1.0	1.2
Norway*	50.0	53.1	46.1	50.9	55.8	43.6	51.6	37.8	37.5	33.1
Panama	2.0	2.0	1.5	1.8	2.6	2.6	3.8	3.4	2.9	2.7
Repl. of the Philippines	na	1.5	0.8	0.9	0.9	0.5	0.9	0.8	0.6	0.6
Portugal	7.7	6.7	5.9	6.9	5.6	2.7	7.9	5.1	5.8	4.8
South Africa*	9.9	5.8	5.1	5.2	6.0	6.2	6.5	5.7	5.5	5.4
Spain	14.2*	12.8 *	12.5 *	14.1*	13.4*	11.6*	13.7 *	12.1 *	9.8 *	7.4 *
Sweden	34.4	36.9	32.6	34.5	40.8	39.8	42.5	40.5	34.0	30.3
Switzerland*	37.7	31.4	29.8	28.6*	27.9*	22.2*	34.9*	31.1*	27.9*	22.9*
Taiwan, Republic of China*	13.4	15.0	12.8	10.5	8.7	6.9	6.6	7.8	4.8	4.4
Turkey	2.1	2.5	2.5	4.3	3.4	3.7	1.7	2.5	2.5	2.1
United Kingdom*	21.6	22.1	26.6	26.4	25.1	21.7	27.4	27.5	24.3	22.1
United States*	56.8	65.8	65.9	60.3	57.1	44.9	60.4	65.1	55.7	49.0
Venezuela*	na	9.3	11.3	9.7	8.1	6.1	5.2	4.8	3.5	3.2

* *Adjusted for inventory change.* *na—Not available at publication time.*

Per Capita Aluminum Consumption Formula

1. +Primary aluminum production
2. ±Government stockpile adjustment
3. +Imports of ingot
4. +Imports of mill products (aluminum alloy weight)
5. +Recovery of secondary aluminum alloys (from domestic and imported scrap)
6. —Exports of ingot
7. —Exports of mill products (aluminum alloy weight)
8. =Apparent aluminum consumption
9. +Beginning of year inventory
10. —End of year inventory
11. ±Inventory change
12. =Aluminum consumption (with inventory change)
13. ÷Mid-year population
14. =Per capita consumption (lbs) (without inventory change)
15. =Per capita consumption (lbs) (with inventory change)

DESCRIPTION:

The Aluminum Association, in conjunction with industry associations in foreign countries, and, in some instances appropriate government agencies, is developing a joint program to compile uniform statistical data showing total supply and apparent consumption. Total supply for an individual country consists of primary production, imports, and secondary recovery. Apparent

Pounds per person per year

1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
5.9	6.0	4.8	3.8	4.4	4.4	3.9	—	—	—	—
24.0	22.6	20.6	17.1	15.6	16.3	15.7	12.2	12.5	8.3	11.6
18.2	13.5	16.7	15.4	10.2	11.6	10.5	10.4	—	—	—
13.1	12.9	9.1	7.2	8.8	7.9	7.9	9.0	7.7	6.6	6.3
2.5	2.4	2.1	1.8	1.8	1.3	1.3	1.5	1.3	1.4	1.2
3.6	—	—	—	—	—	—	—	—	—	—
25.8	25.5	23.4	21.3	24.3	21.4	17.8	16.5	14.2	12.9	11.4
16.7	17.7	12.5	12.5	12.1	9.7	—	—	—	—	—
19.5	19.5	15.5	14.0	14.5	12.1	12.2	12.1	11.7	10.4	10.9
30.1	30.3	25.7	19.5	20.5	20.0	19.2	15.7	15.3	15.1	15.9
5.9	3.3	3.7	4.4	4.1	2.8	2.3	1.6	—	—	—
7.8	9.9	12.9	8.0	9.1	9.3	6.3	7.5	5.5	3.3	4.5
0.4	0.2	0.1	0.1	0.1	0.1	—	—	—	—	—
1.8	1.7	1.5	1.2	1.0	0.5	0.7	0.5	0.5	0.5	0.4
4.7	4.8	2.8	—	—	—	—	—	—	—	—
12.1	11.2	10.4	6.3	5.8	5.3	—	—	—	—	—
17.0	14.8	12.5	11.6	10.4	8.0	7.7	8.6	7.5	6.9	6.5
24.8	22.6	17.5	14.3	11.3	8.7	8.4	7.1	5.3	5.5	4.3
3.2	2.9	2.5	2.5	2.0	1.8	—	—	—	—	—
12.6	12.2	10.7	8.8	7.8	6.4	7.4	6.6	5.1	4.8	5.6
19.2	14.6	11.6	12.1	9.2	10.5	8.1	7.0	—	—	—
1.3	1.1	1.0	—	—	—	—	—	—	—	—
31.0	33.6	29.6	24.3	18.3	11.6	15.8	13.1	17.8	14.3	13.2
2.4	2.6	2.3	3.1	2.2	2.2	0.8	0.5	0.5	0.5	0.5
0.6	1.1	0.7	0.5	0.4	0.3	—	—	—	—	—
3.1	2.4	2.1	2.0	2.3	2.2	1.8	1.5	—	—	—
6.0	5.0	4.0	3.5	4.1	3.6	3.4	—	—	—	—
7.3	7.4	5.8	5.1	6.5	4.9	3.6	3.3	2.6	2.6	2.2
32.6	32.4	24.6	21.8	24.8	22.1	21.1	16.9	13.8	12.8	11.7
30.1*	27.5	22.9	18.9	21.9	22.6	21.1	19.3	19.8	19.3	14.8
4.9	3.3	3.7	3.1	2.4	2.2	1.9	1.5	1.3	1.5	1.1
1.4	1.9	1.2	1.0	0.5	0.4	—	—	—	—	—
24.4	23.8	21.9	20.5	20.5	20.2	20.0	17.5	15.9	15.5	17.2
44.9	50.4	47.2	42.0	46.4	41.1	36.3	34.3	31.1	27.1	23.8
2.5	2.9	2.2	3.4	2.0	2.1	3.2	2.1	2.2	2.9	2.5

consumption is equal to the sum of these sources of total supply less exports and inventory changes.

In order to develop a basis for showing relative aluminum usage by country and to provide a measure of trend over time, per capita consumption data have been calculated for each country. For this purpose mid-year population estimates have been used. It is important to emphasize that these estimates are not the only way of measuring relative consumption data among countries. Obviously, the composition of a country's population, standard of living, industrialization, climate, availability and economies of other materials, and a number of other important considerations affect the per capita use of aluminum. The formula is used because it is simple and permits the Association to compile data for more countries, with their cooperation, than can be compiled using more detailed information.

When data for individual lines are not available or are not appropriate, they are omitted. Inventory changes cover suppliers' inventories only. Consumption estimates exclude changes in customer inventories.

Glossary

ACSR AND ALUMINUM CABLE, BARE—Aluminum stranded conductor reinforced by a core of steel (ACSR), or aluminum (ACAR); or any other bare stranded aluminum conductor.

ATOMIZED POWDER—Powder produced by blowing or asperating molten metal through an orifice.

CASTING—A product made by pouring molten metal into a mold of a desired shape and letting it harden.

CONDUCTOR REDRAW ROD (CONTINUOUS-CAST OR ROLLED)—A solid round product that is long in relation to cross section, 0.375″ or greater in diameter, produced by continuous casting followed by size-rolling, or by rolling from D.C. cast ingot, suitable for drawing into electrical conductor wire.

DIRECT MILL USES—Finished product applications supplied for the most part directly from mills rather than from distributors or jobber warehouses.

DRAWING STOCK—See Conductor or Non Conductor Redraw Rod.

DRAWN TUBE—A hollow product that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape, and brought to final dimensions by drawing.

DROSS AND SKIMMINGS—The mixture of oxides and other impurities which float to the surface of molten aluminum and is skimmed off.

EXTRUDED PIPE AND TUBE—A hollow product formed by extruding that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape.

EXTRUDED ROD AND BAR—A solid product produced by extruding (sometimes brought to final dimensions by drawing) that is long in relation to cross section, which is round, square, rectangular, hexagonal, or octagonal in shape and 0.375″ or greater in diameter or in at least one perpendicular distance between parallel faces.

EXTRUDED SHAPES—A product produced by extruding, that is long in relation to its cross-sectional dimensions and has a cross section other than that of rod and bar and pipe and tube.

EXTRUSION INGOT (BILLET)—A solid or hollow cast form, usually cylindrical, suitable for extruding.

FLAKED POWDER—Powder consisting of flat or scale-like particles of a thickness small compared with other dimensions, produced by milling in the presence of a lubricant.

FOIL—A flat rolled product, rectangular in cross section, of thickness less than 0.006″.

FORGINGS ,EXCLUDING IMPACT EXTRUSIONS)—A product worked to a predetermined shape by one or more processes such as hammering, upsetting, pressing, rolling, etc.

GENERAL LINE DISTRIBUTOR—Warehouses and sells a number of mill products to a wide variety of customers.

IMPACTS (EXCLUDING COLLAPSIBLE TUBES AND CANS)—A product formed in a confining die from a metal slug, usually cold, by rapid simple stroke application of force through a punch, causing the metal to flow around the punch and/or through an opening in the punch or die.

INTEGRATED PRODUCER (OR SUPPLIER)—For statistical reporting, a company which produces primary aluminum ingot in the United States and produces mill products from it.

METALLURGICAL/DESTRUCTIVE USES—Applications wherein, because of the way it is used, aluminum either loses its identity or is lost and cannot be recovered. Major uses include the deoxidizing of steel and reduction of ferroalloys; steel and other nonferrous metal alloys; steel coating; and such other applications as chemicals and catalysts.

MILL PRODUCTS—Metal that has been fashioned into an intermediate or semifabricated form in preparation for making a finished product. Example: sheet, a mill product, is used to make residential siding, a finished product.

NET SHIPMENTS—Excludes intra-industry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are subtracted.

NONCONDUCTOR REDRAW ROD (CONTINUOUS-CAST OR ROLLED)—A solid round product that is long in relation to cross section, 0.375" or greater in diameter, produced by continuous casting followed by size-rolling, or by rolling from D.C. cast ingot, suitable for drawing into nonconductor wire.

NONINTEGRATED FABRICATOR (OR SUPPLIER)—For statistical reporting, a U.S. mill product fabricator which is not affiliated with a domestic primary ingot producer.

OTHER INGOT AND MOLTEN METAL, PRIMARY—For statistical purposes, a cast form other than extrusion ingot (or molten metal), shipped by an integrated producer or nonintegrated fabricator from a company-owned facility not exclusively devoted to producing secondary ingot.

OTHER INGOT AND MOLTEN METAL, SECONDARY—For statistical purposes, a cast form other than extrusion ingot (or molten metal), principally produced from aluminum scrap to specification by secondary smelters (or others at a facility exclusively devoted to producing ingot from scrap for sale); excludes remelt scrap ingot (RSI) which is considered scrap until remelted and cast into specification ingot.

OTHER ROD AND BAR (CONTINUOUS-CAST OR ROLLED)—A solid, round, square, rectangular, hexagonal, or octagonal in shape produced by continuous casting or rolling, that is long in relation to cross section, 0.375" or greater in diameter or in at least one perpendicular distance between parallel faces; other than redraw rod and D.C. cast ingot.

PASTE—A blend of powder or flake with a thinner or plasticizer.

PLATE, NONHEAT-TREATABLE—A flat rolled product, rectangular in cross section, 0.250" or greater in thickness, which can be strengthened only by cold work.

PLATE, HEAT-TREATABLE—A flat rolled product, in 2000, 6000, or 7000 alloy series (except 7072), rectangular in cross section, 0.250" or greater in thickness, which can be strengthened by a suitable thermal treatment.

POWDER—An aggregate of discrete particles of aluminum, substantially all of which are finer than 1,000 microns (minus 18 mesh).

RECEIPTS—The metal physically received by a company for further processing.

REIMPORTS—Mill products that have been exported, partially processed outside the United States, and imported back to the United States while still in a mill product stage.

ROLLED STRUCTURAL SHAPES—A structural shape produced by hot rolling.

SECONDARY SMELTER—A company whose facilities are exclusively devoted to producing ingot or molten aluminum from scrap.

SEMIFABRICATED PRODUCTS—See Mill Products.

SHEET, NONHEAT-TREATABLE—A rolled product, flat or coiled, rectangular in cross section, of 0.006" thickness but under 0.250" thickness, which can be strengthened only by cold work.

SHEET, HEAT-TREATABLE—A rolled product, in 2000, 6000, or 7000 alloy series (except 7072), flat or coiled, rectangular in cross section, of 0.006" thickness but under 0.250" thickness, which can be strengthened by a suitable thermal treatment.

STATISTICAL ADJUSTMENT—An adjustment made to product shipment data to acccunt for net shipments of aluminum reported by the Bureau of the Census which are believed to be either over- or understated due to excessive or insufficient reporting of receipts. The addition of the statistical adjustment reconciles the amounts reported by the Bureau of the Census with the net shipments that the Aluminum Association feels are more correct.

WELDED TUBE—A hollow product that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape, produced by forming and seam-welding sheet longitudinally.

WIRE, BARE, CONDUCTOR AND NONCONDUCTOR—A solid wrought product that is long in relation to its cross section, which is square, round, rectangular, hexagonal, or octagonal in shape, whose diameter or greatest perpendicular distance between parallel faces (except for flattened wire) is less than 0.375".

WIRE AND CABLE, INSULATED OR COVERED—Aluminum electrical conductor wire or stranded conductors that are insulated or covered.